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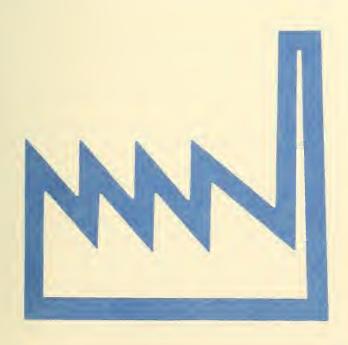
1987 Census of Manufactures

MC87-I-25B

INDUSTRY SERIES

Office, Public Building, and Miscellaneous Furniture; Office and Store Fixtures

Industries 2521, 2522, 2531, 2541, 2542, 2591, and 2599



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Many persons participated in the various activities of the 1987 Census of Manufactures.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Industry Division. John Govoni, Assistant Chief for Census/ASM Programs, was responsible for the overall planning, management, and coordination of the census of manufactures. Planning and implementation were under the direction of Michael J. Zampogna, Chief, Nondurables Branch, assisted by Allen H. Foreman, Jr., Section Chief, with primary data analysis responsibilities performed by David J. Gromos.

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If you have any questions concerning the statistics in this report, call (301) 763-2510.

1987

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INTRODUCTION

PURPOSE AND USES OF THE ECONOMIC **CENSUSES**

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the

Census of Retail Trade Census of Wholesale Trade Census of Service Industries Census of Transportation Census of Manufactures Census of Mineral Industries Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying inter-

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures, Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent

observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF MANUFACTURES

General

This report, from the 1987 Census of Manufactures, is one of a series of 83 industry reports, each of which provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each State and the District of Columbia and for special subjects such as type of organization, distribution of sales by class of customer, concentration ratios and water use in manufacturing.

The industry reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, capital expenditures, product shipments, etc.

State reports present similar statistics for each State and its important metropolitan statistical areas (MSA's), counties, and places. Selected statistical totals for "all manufacturing" have been shown in the State reports for MSA's with 250 employees or more and for counties and places with 450 employees or more.

The *General Summary* report will contain industry, product class, and geographic area statistics summarized in one report. The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the relationship of value added by manufacture to National income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

Scope of Census and Definition of Manufacturing

The 1987 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial

Classification (SIC) Manual¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

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

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

Relationship Between Annual Survey of Manufactures and Census of Manufactures

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is a probability-based sample of approximately 56,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, costs of purchased services, and foreign content of materials consumed. Except for supplemental labor costs, the extra ASM items are collected only in census years.

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in

distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1987, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

Manufacturing Universe and Census Report Forms

The 1987 Census of Manufactures universe includes approximately 350,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

Small Single-Establishment Companies Not Sent a Report Form

In the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industry-by-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-records cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than five employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials

¹Standard Industrial Classification Manual: 1987: For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, Stock No. 041-001-00314-2.

were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative-records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded at the fourdigit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-record cases were only given a two- or three-digit SIC group. For the 1987 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments Sent a Report Form

The 200,000 establishments covered in the mail canvass were divided into three groups:

a. ASM sample establishments-This group consisted of approximately 56,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see appendix, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. See appendix A, section 2, for an explanation of these items.

The census part of the report form is one of approximately 200 versions containing product. material, and special inquiries. The diversity of manufacturing activities necessitated the use of these many forms to canvass the 459 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materialsconsumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant material not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

- b. Large and medium establishments (non-ASM)—Approximately 84,000 establishments were included in this group. A variable cutoff, based on administrative-records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive one of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. Small single-establishment companies (non-ASM)—This group consisted of approximately 60,000 establishments. For those industries where application of the variable cutoff for administrativerecords cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received one of the approximately 80 versions of the short form, which requested

summary product and material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same data were collected on the short form as on the long form. However, detailed information on materials consumed was not collected on the short form; thus its use would increase the value of the n.s.k. categories.

Auxiliaries

In this industry report, the data on employment and payroll are limited to operating manufacturing establishments. The census report form filed for auxiliaries (ES-9200) requested a description of the activity of the establishments serviced. However, the manufacturing auxiliaries were coded only to the two-digit major group of the establishments they served; whereas, the operating establishments were coded to a four-digit manufacturing industry. Data for the approximately 10,000 separately operated auxiliaries are included in the geographic area series and in a report issued as part of the 1987 Enterprise Statistics Survey.

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters.

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 459 manufacturing industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 Manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or a closely related group or products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively become narrower with successive additions of numerical digits. For 1987, there are 20 major groups (two-digit SIC), 139 industry groups (three-digit SIC), and 459 industries (four-digit SIC). This represents an expansion of four-digit industries from 452 in 1972/77 and a reduction of threedigit groups from 143 in 1972/77. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 11,000 products identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in operations. Refining of nonferrous metals from ore or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see appendix, Annual Survey of Manufactures). However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The result of these rules covering the switching of plants from one industry classification to another is that, at the aggregate level, some industries comprise different mixes of establishments between survey years, and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) shown in tables 1a through 5a, therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities. The product statistics in table 6a represent the output of all establishments whether or not they are classified in the same industry as the product. For this reason, in relating the industry statistics, especially the value of shipments to the product statistics, the composition of the industry's output shown in table 5b should be considered.

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

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration equipment industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all

carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfers of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

Value of Shipments for the Industry Compared With Value of Product Shipments

This report shows value of shipments data for industries and products. In tables 1a through 5a, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6a represents the total value of all products shipped that are classified as primary to an industry.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1a through 5a of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed. However, the suppressed data are included in higher-level totals. Additional disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential

information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, DC 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

_	Represents zero.
(D)	Withheld to avoid disclosing data for individual
	companies; data are included in higher level
	totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet pub-
	lication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.

n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Census/ASM Durables Nondurables	Kenneth Hansen Michael Zampogna	(301) 763-7304 (301) 763-2510
Current Indus- trial Reports Durables Nondurables	Malcolm Bernhardt Thomas Flood	(301) 763-2518 (301) 763-5911
Import/Export Publications	Foreign Trade Division	(301) 763-5140
Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356

Users' Guide for Locating Statistics in This Report by Table Number

For explanation of terms, see appendixes

			Four-dig	it industry :	statistics				re-digit prod ren-digit pro		
Item	Histori- cal	Operat- ing ratios	By geo- graphic area	Sum- mary and supple- mental	By employ- ment size	By industry and product class specialization	Materials con- sumed by kind	Industry- product analysis	Product ship- ments	Product class by geo- graphic area	Historical product class
Number of companies	1a			3a					*6a		
Number of establishments	1a		2	3a	4	5a					
Employment and payroll: Number of employees Payroll Supplemental labor costs Production workers Production- worker hours. Production- worker wages	1a 1a 1a 1a 1a	1b 1b 1b 1b 1b	2 2 2 2 2	3a 3a 3a 3a 3a 3a	4 4 4 4	5a 5a 5a 5a 5a					
Shipments, cost of materials, and value added: Value of shipments (four-digit)	1a	1b	2	3а	4	5 a		5b	6a 6a	6b	6 c
manufacture	1a 1a	1b 1b	2 2	3a 3a 3a	4	5a 5a	7				
Inventories: Total, end of year By stage of fabrication	1a			3a 3a	4						
Capital expenditures, assets, rental payments, and purchased services: New capital expenditures Used plant and equipment expenditures Gross assets Depreciation Retirements of buildings and machinery Rental payments Foreign content of materials consumed Purchased services	1a		2	3b 3b 3b 3b 3b 3c 3c	4	5a					
Ratios: Specialization Coverage	1a 1a			3a 3a				5b 5b			

^{*}Number of companies with shipments of more than \$100 thousand.

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Publication Program _____

DESCRIPTION OF INDUSTRIES AND SUMMARY OF FINDINGS

This report shows 1987 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC code and title

2521	Wood Office Furniture
2522	Office Furniture, Except Wood
2531	Public Building and Related Furniture
2541	Wood Partitions and Fixtures
2542	Partitions and Fixtures, Except Wood
2591	Drapery Hardware and Blinds and Shades
2599	Furniture and Fixtures, N.E.C.

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

Small single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions included in the 1987 Standard Industrial Classification (SIC) Manual¹. The 1987 edition represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. In addition to the 1987 SIC revision, changes were made to the product class

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

(five-digit) and product code (seven-digit) categories. The product class and product code comparability between the 1987 and 1982 censuses is shown in the appendixes. These appendixes present, in tabular form, the linkage from 1987 to 1982.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

INDUSTRY 2521, WOOD OFFICE FURNITURE

This industry is made up of establishments primarily engaged in manufacturing office furniture, chiefly of wood. Products of this industry also are collected in the Current Industrial Report MA-25H, Office Furniture.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2521, Wood Office Furniture, had employment of 31.0 thousand. The employment figure was 48 percent above the 21.0 thousand reported in 1982. The leading States in employment in 1987 were North Carolina, California, Indiana, and New York. These same States were the leaders in 1982.

The total value of shipments for establishments classified in this industry was \$2.1 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2521 shipped \$1.8 billion of wood office furniture products considered primary to the industry, \$141.1 million of secondary products, and had \$109.0 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 93 percent (specialization ratio). In 1982, the specialization ratio was 91 percent.

Establishments in this industry also accounted for 91 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 84 percent. The products primary to industry 2521, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.0 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the wood office furniture industry amounted to \$829.0 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of total value of shipments.

INDUSTRY 2522, OFFICE FURNITURE, EXCEPT WOOD

This industry is made up of establishments primarily engaged in manufacturing office furniture, except furniture chiefly of wood. Establishments primarily engaged in manufacturing safes and vaults are classified in industry 3499. Products of this industry also are collected in the Current Industrial Report MA-25H, Office Furniture.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2522, Office Furniture, Except Wood, had employment of 49.7 thousand. The employment figure was 31 percent above the 37.8 thousand reported in 1982. The leading States in employment in 1987 were Michigan, California, Pennsylvania, and Illinois. This represents a shift from 1982 when Michigan, California, Pennsylvania, and New York were the leading States.

The total value of shipments for establishments classified in this industry was \$5.5 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2522 shipped \$5.0 billion of nonwood office furniture products considered primary to the industry, \$293.6 million of secondary products, and had \$129.5 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 94 percent (specialization ratio). In 1982, the specialization ratio was 90 percent.

Establishments in this industry also accounted for 96 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 91 percent. The products primary to industry 2522, no matter in what industry they were produced, appear in table 6a and aggregate to \$5.3 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the nonwood office furniture industry amounted to \$2.0 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 3 percent of total value of shipments.

INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE

This industry is made up of establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. It also includes establishments engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft. Establishments primarily engaged in manufacturing stone furniture are classified in industry 3281, and those manufacturing concrete furniture are classified in industry 3272.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2531, Public Building and Related Furniture, had employment of 21.8 thousand. The employment figure was 16 percent above the 18.8 thousand reported in 1982. The leading States in employment in 1987 were California, Indiana, Michigan, and Arkansas, accounting for 40 percent of the industry's employment. This represents a shift from 1982 when Michigan, Texas, Arkansas, and California accounted for 36 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$2.1 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2531 shipped \$1.9 billion of public building and related furniture products considered primary to the industry, \$153.1 million of secondary products, and had \$74.2 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 92 percent (specialization ratio). In 1982, the specialization ratio was 84 percent.

Establishments in this industry also accounted for 92 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 86 percent. The products primary to industry 2531, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.0 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the public building and related furniture industry amounted to \$1.2 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 11 percent of total value of shipments.

INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES

This industry is made up of establishments primarily engaged in manufacturing shelving, lockers, and office and store fixtures, plastics laminated fixture tops, and related fabricated products, chiefly of wood. Prefabricated partitions are included in this industry if designed to be attached to the floor and are classified in industry 2521 if designed to be free-standing or part of an office furniture panel system. Establishments primarily engaged in manufacturing refrigerated cabinets, showcases, and display cases are classified in industry 3585.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2541, Wood Partitions and Fixtures, had employment of 40.5 thousand. The employment figure was 28 percent above the 31.7 thousand reported in 1982. The leading States in employment in 1987 were California, New York, Pennsylvania, and Illinois. These same States were the leaders in 1982.

The total value of shipments for establishments classified in this industry was \$2.8 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2541 shipped \$2.5 billion of wood partitions and fixtures products considered primary to the industry, \$167.1 million of secondary products, and had \$140.3 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 94 percent (specialization ratio). In 1982, the specialization ratio was 92 percent.

Establishments in this industry also accounted for 90 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 91 percent. The products primary to industry 2541, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.8 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the wood partitions and fixtures industry amounted to \$1.2 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 22 percent of total value of shipments.

INDUSTRY 2542, PARTITIONS AND FIXTURES, EXCEPT WOOD

This industry is made up of establishments primarily engaged in manufacturing office and store fixtures, shelving, storage racks, lockers, and related fabricated products, chiefly of materials other than wood. Prefabricated partitions are included in this industry if designed to be attached to the floor and are classified in industry 2522 if designed to be free-standing or part of an office furniture panel system. Establishments primarily engaged in manufacturing refrigerated cabinets, showcases, and display cases are classified in industry 3585 and those manufacturing safes and vaults are classified in industry 3499.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2542, Partitions and Fixtures, Except Wood, had employment of 33.5 thousand. The employment figure was 20 percent above the 28.0 thousand reported in 1982. Compared with 1986, employment increased 3 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses. The leading States in employment in 1987 were Illinois, New York, California, and Pennsylvania, accounting for 40 percent of the industry's employment. These same States were the leaders in 1982, when they accounted for 45 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$2.7 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2542 shipped \$2.3 billion of nonwood partitions and fixtures products considered primary to the industry, \$285.2 million of secondary products, and had \$162.1 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 89 percent (specialization ratio). In 1982, the specialization ratio also was 89 percent.

Establishments in this industry also accounted for 93 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 91 percent. The products primary to industry 2542, no matter in what industry they

were produced, appear in table 6a and aggregate to \$2.4 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the nonwood partitions and fixtures industry amounted to \$1.2 billion. Data on specific materials consumed appear in

Single-establishment companies in this industry with up to 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13 percent of total value of shipments.

INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES

This industry is made up of establishments primarily engaged in manufacturing curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades, except of canvas. Establishments primarily engaged in manufacturing canvas shades and awnings are classified in industry 2394.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2591, Drapery Hardware and Blinds and Shades had employment of 20.6 thousand. The employment figure was 31 percent above the 15.7 thousand reported in 1982. The leading States in employment in 1987 were California, Illinois, New Jersey, and Pennsylvania, accounting for 42 percent of the industry's employment. This represents a shift from 1982 when California, New Jersey, Illinois, and New York accounted for 41 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$1.8 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2591 shipped \$1.6 billion of drapery hardware and blinds and shades products considered primary to the industry, \$11.3 million of secondary products, and had \$156.0 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 99 percent (specialization ratio). In 1982, the specialization ration was 97 percent.

Establishments in this industry also accounted for 97 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio also was 97 percent. The

products primary to industry 2591, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.7 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the drapery hardware and blinds and shades industry amounted to \$887.0 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 15 percent of total value of shipments.

INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing furniture and fixtures, not elsewhere classified, including hospital beds and furniture specially designed for use in restaurants, bars, cafeterias, bowling centers, and ships.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2599, Furniture and Fixtures, N.E.C., had employment of 29.3 thousand. The employment figure was 46 percent above the 20.1 thousand reported in 1982. The leading States in employment in 1987 were California, Florida, Indiana, and Tennessee, accounting for 36 percent of the industry's employment. This represents a shift from 1982 when California, Illinois, New York, and Indiana accounted for 39 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$2.0 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2599 shipped \$1.7 billion of furniture and fixtures, n.e.c., products considered primary to the industry, \$121.3 million of secondary products, and had \$140.0 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 93 percent (specialization ratio). In 1982, the specialization ratio was 90 percent.

Establishments in this industry also accounted for 90 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 82 percent. The products primary to industry 2599, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.9 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the furniture and fixtures, n.e.c., industry amounted to \$791.1 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 28 percent of total value of shipments.

Table 1a. Historical Statistics for the Industry: 1987 and Earlier Years

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory

lustry definitions are the same a r explanation of terms, see app						Production workers							Rat	ios	
Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)	
					INDU	STRY 252	1, WOOD	OFFICE FUF	NITURE						
625	649	233	31.0	562.2	24.4	48.4	379.0	1 261.8	829.0	2 084.1	48.3	341.7	93	91	
(NA)	(NA)	(NA)	24.8	426.2	19.8	37.9	288.9	913.8	608.9	1 530.2	42.1	274.7	(NA)	(NA)	
(NA)	(NA)	(NA)	23.7	410.5	18.5	37.0	270.0	942.8	557.4	1 505.4	54.8	260.0	(NA)	(NA)	
(NA)	(NA)	(NA)	24.8	406.6	19.6	39.1	272.4	909.4	586.7	1 477.9	45.2	271.5	(NA)	(NA)	
(NA)	(NA)	(NA)	20.8	324.0	16.6	32.6	212.1	712.6	473.4	1 166.6	947.0	224.8	(NA)	(NA)	
430	446	175	21.0	296.1	16.6	32.0	194.0	659.0	424.2	1 087.4	32.6	198.2	91	84	
(NA)	(NA)	(NA)	19.3	263.7	14.9	29.7	170.0	644.8	419.0	1 055.7	36.6	178.8	(NA)	(NA)	
(NA)	(NA)	(NA)	20.3	263.4	15.5	27.7	154.3	602.1	446.0	1 034.8	45.5	210.1	(NA)	(NA)	
(NA)	(NA)	(NA)	20.1	249.2	15.6	31.3	153.9	599.4	444.0	1 023.0	35.5	182.6	(NA)	(NA)	
(NA)	(NA)	(NA)	17.5	199.8	13.7	26.6	129.2	425.2	300.3	712.1	37.3	137.7	(NA)	(NA)	
316	331	(NA)	16.0	165.0	12.8	25.5	110.2	381.3	239.0	812.0	26.5	107.1	85	90	
(NA)	(NA)	(NA)	12.8	115.9	10.7	20.1	81.1	207.2	153.1	356.5	6.3	71.4	(NA)	(NA)	
(NA)	(NA)	(NA)	11.6	98.2	9.7	17.4	68.1	166.5	127.6	294.8	95.8	61.6	(NA)	(NA)	
(NA)	(NA)	(NA)	13.4	106.3	11.4	22.0	78.2	186.4	150.4	335.9	7.4	67.9	(NA)	(NA)	
(NA)	(NA)	(NA)	12.4	90.1	10.4	20.7	67.2	142.0	121.7	264.5	10.5	58.5	(NA)	(NA)	
232	240	104	11.5	80.1	9.6	19.4	60.1	146.7	106.2	249.7	7.3	50.1	90	84	
					NDUSTR	7 2522, O	FFICE FUE	RNITURE, EX	CEPT WOOL)					
291	337	206	49.7	1 227.4	35.8	69.6	776.4	3 479.4	1 987.9	5 453.6	234.1	645.7	94	96	
(NA)	(NA)	(NA)	43.7	1 072.5	30.8	61.0	679.7	2 874.1	1 861.7	4 728.9	218.3	562.9	(NA)	(NA)	
(NA)	(NA)	(NA)	44.6	1 036.1	31.8	62.9	670.2	2 687.9	1 847.6	4 530.2	171.9	577.9	(NA)	(NA)	
(NA)	(NA)	(NA)	40.4	931.1	29.4	59.4	595.2	2 487.4	1 567.7	4 027.2	159.5	522.3	(NA)	(NA)	
(NA)	(NA)	(NA)	39.1	816.5	28.4	53.8	519.1	2 073.4	1 313.9	3 350.5	185.0	473.7	(NA)	(NA)	
224	254	162	37.8	754.8	27.3	53.2	483.9	1 817.9	1 230.9	3 062.7	114.2	427.4	90	91	
(NA)	(NA)	(NA)	34.7	646.2	25.8	51.1	437.0	1 506.8	1 058.1	2 563.3	91.6	338.7	(NA)	(NA)	
(NA)	(NA)	(NA)	33.0	549.2	24.4	48.3	380.4	1 337.8	906.3	2 224.2	107.0	289.2	(NA)	(NA)	
(NA)	(NA)	(NA)	29.8	465.0	23.4	47.2	335.4	1 059.8	769.4	1 818.1	81.4	260.2	(NA)	(NA)	
(NA)	(NA)	(NA)	31.0	435.9	24.3	48.4	311.6	958.1	684.2	1 631.8	56.0	253.3	(NA)	(NA)	
167	192	114	29.0	377.6	22.3	43.6	265.7	854.8	553.2	1 397.4	41.1	237.2	94	92	
(NA)	(NA)	(NA)	25.7	298.5	18.9	37.3	201.6	652.4	452.3	1 094.0	934.2	209.2	(NA)	(NA)	
(NA)	(NA)	(NA)	25.2	272.0	18.4	36.5	183.1	589.5	399.4	981.9	23.9	189.8	(NA)	(NA)	
(NA)	(NA)	(NA)	31.1	313.3	24.1	49.0	221.1	645.2	436.4	1 069.4	25.2	202.0	(NA)	(NA)	
(NA)	(NA)	(NA)	30.1	286.4	22.7	46.5	192.4	638.9	394.8	1 023.7	39.6	167.6	(NA)	(NA)	
165	(NA)	(NA)	27.8	249.9	20.8	42.9	168.0	513.2	353.2	861.5	24.5	144.5	90	89	
				INDU	STRY 253	1, PUBLIC	BUILDIN	G AND RELA	ATED FURNI	TURE					
465	491	209	21.8	396.8	16.6	33.0	259.1	901.1	1 191.3	2 088.3	45.0	222.9	92	92	
(NA)	(NA)	(NA)	22.9	399.7	17.4	33.0	257.4	827.7	831.6	1 654.8	⁹ 42.1	246.2	(NA)	(NA)	
(NA)	(NA)	(NA)	21.2	369.9	15.8	31.0	232.6	728.2	687.5	1 415.8	46.0	219.3	(NA)	(NA)	
(NA)	(NA)	(NA)	20.7	350.1	15.4	30.5	218.5	683.9	640.5	1 317.0	⁹ 42.3	237.6	(NA)	(NA)	
(NA)	(NA)	(NA)	19.1	318.8	14.0	26.9	190.3	609.4	586.8	1 197.8	⁹ 25.4	222.3	(NA)	(NA)	
394	413	181	18.8	294.9	13.8	26.2	175.8	578.8	521.6	1 102.8	24.8	203.7	84	86	
(NA)	(NA)	(NA)	20.8	293.1	15.0	29.1	177.3	579.5	579.3	1 140.2	⁹ 27.9	200.1	(NA)	(NA)	
(NA)	(NA)	(NA)	21.8	274.8	15.7	29.0	164.2	557.7	561.5	1 121.9	⁹ 33.7	177.4	(NA)	(NA)	
(NA)	(NA)	(NA)	23.0	263.3	17.1	31.7	162.9	539.8	521.7	1 047.8	⁹ 21.5	175.0	(NA)	(NA)	
(NA)	(NA)	(NA)	20.2	231.5	14.9	29.5	139.0	416.8	440.8	850.7	30.0	161.8	(NA)	(NA)	
401 (NA) (NA) (NA) (NA) 405	420 (NA) (NA) (NA) (NA) (NA)	185 (NA) (NA) (NA) (NA)	20.0 20.6 20.0 21.6 22.2 21.4	214.3 196.4 173.6 186.1 169.1 157.8	15.0 15.8 15.6 16.9 17.4 16.3	29.2 29.6 28.0 31.7 33.0 31.6	132.9 125.5 115.8 124.5 112.0 103.8	414.9 373.0 331.1 338.7 299.6 295.9	381.8 371.8 317.1 305.8 265.6 249.5	787.4 743.8 657.5 643.1 564.9 535.3	22.3 15.6 15.8 15.6 13.0 13.0	138.3 121.2 113.4 135.7 121.0 108.6	88 (NA) (NA) (NA) (NA) (NA)	87 (NA) (NA) (NA) (NA) 87	
1 832 (NA) (NA) (NA) (NA) (NA)	1 866 (NA) (NA) (NA) (NA)	557 (NA) (NA) (NA) (NA)	40.5 34.0 35.6 35.0 31.5	861.0 721.0 703.0 687.9 560.9	30.3 26.3 27.3 26.7 24.2	60.9 51.9 52.8 51.1 43.7	566.6 487.8 483.3 471.3 384.8	1 608.9 1 349.3 1 325.8 1 304.0 1 100.3	1 211.6 993.1 988.6 998.2 753.5	2 814.9 2 337.9 2 315.3 2 288.4 1 851.2	65.7 975.7 962.9 942.4 924.7	347.5 291.2 292.6 298.1 255.8	94 (NA) (NA) (NA) (NA)	90 (NA) (NA) (NA) (NA)	
1 547	1 580	388	31.7	543.0	24.3	46.9	379.6	1 017.1	746.3	1 766.7	39.2	250.3	92	91	
(NA)	(NA)	(NA)	34.9	514.5	28.5	53.2	357.0	913.5	716.3	1 603.2	920.6	249.8	(NA)	(NA)	
(NA)	(NA)	(NA)	32.8	453.0	26.7	49.1	313.0	814.2	645.9	1 440.4	917.6	206.2	(NA)	(NA)	
(NA)	(NA)	(NA)	31.7	413.0	25.6	48.7	286.1	722.2	592.0	1 294.7	917.1	184.9	(NA)	(NA)	
(NA)	(NA)	(NA)	31.6	403.9	24.6	47.6	279.7	736.1	597.7	1 325.3	932.7	185.6	(NA)	(NA)	
1 572 (NA) (NA) (NA) (NA) (NA)	1 598 (NA) (NA) (NA) (NA)	394 (NA) (NA) (NA) (NA)	29.4 29.1 27.3 29.2 32.3	352.9 316.0 279.2 288.6 285.9 268.2	23.0 23.0 21.6 23.4 25.8 24.8	45.3 43.5 41.5 45.1 50.1 48.3	241.0 215.8 194.5 202.7 201.9	621.4 543.0 481.4 517.7 496.3 458.6	496.1 449.5 382.6 390.7 377.1	1 105.8 992.9 867.1 911.2 866.8 793.2	22.4 ⁹ 21.3 ⁹ 14.7 18.3 15.6	158.2 126.6 123.2 121.8 133.4	92 (NA) (NA) (NA) (NA)	88 (NA) (NA) (NA) (NA)	
- 1 473 1 503 412 31.2 268.2 24.8 48.3 187.6 458.6 341.9 793.2 14.6 118.0 92 INDUSTRY 2542, PARTITIONS AND FIXTURES, EXCEPT WOOD										- 03					
567	592	299	33.5	691.0	24.6	49.2	430.8	1 502.6	1 237,9	2 721.3	59.2	449.9	89	93	
(NA)	(NA)	(NA)	32.4	641.1	23.9	47.5	406.7	1 374.3	1 178.2	2 554.2	50.2	383.5	(NA)	(NA)	
(NA)	(NA)	(NA)	32.3	615.0	24.2	45.9	388.5	1 308.4	1 166.8	2 490.5	61.8	393.3	(NA)	(NA)	
(NA)	(NA)	(NA)	32.8	601.1	25.1	46.8	382.8	1 295.1	1 126.2	2 390.9	50.2	406.9	(NA)	(NA)	
(NA)	(NA)	(NA)	28.7	510.0	21.3	41.0	311.9	1 090.4	915.7	2 000.9	32.5	367.3	(NA)	(NA)	
533	568	299	28.0	482.0	20.5	38.9	294.5	1 062.5	874.4	1 943.2	48.1	342.0	89	91	
(NA)	(NA)	(NA)	26.6	439.8	20.1	39.8	275.6	995.7	804.1	1 790.0	952.5	299.4	(NA)	(NA)	
(NA)	(NA)	(NA)	28.0	422.2	20.8	41.6	270.0	921.6	800.3	1 718.5	38.3	299.6	(NA)	(NA)	
(NA)	(NA)	(NA)	29.0	400.3	22.2	44.5	265.3	900.3	793.2	1 668.2	31.9	303.9	(NA)	(NA)	
(NA)	(NA)	(NA)	28.7	350.5	21.7	41.2	228.5	769.8	688.3	1 436.4	50.2	260.1	(NA)	(NA)	
	panies² (no.) 625 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	Companies² (no.) 625 649 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	Companies² Total (no.) 625 649 233 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	Companies² (no.) With 20 employ-ees or panies² (no.) (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA	Companies Total With 20 employ-ees or Number (million dollars)	Companies Total electron Payroll (no.) Number (no.) Payroll (no.) Number (no.) Num	Companies	Companies Total more Payroll Payroll	Companies	Companies Total more Number Payor Indicate Indicate Payor Indicate I	Control With 20 Control With 20 Control With 20 Control With 20 Control Cont	Value raided Valu	Value Part Part		

Table 1a. Historical Statistics for the Industry: 1987 and Earlier Years—Con.

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxillaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes

text. For explana	tuon or terr	is, see app	renortes	1											
				All em	ployees	Pro	duction wo	rkers						Rat	ios
Year	Companies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
				INDUSTRY 2542, PARTITIONS AND FIXTURES, EXCEPT WOOD—Con.											
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	508 (NA) (NA) (NA) (NA) 482	536 (NA) (NA) (NA) (NA) 507	272 (NA) (NA) (NA) (NA) (NA) 239	28.0 21.9 21.0 25.6 26.3 26.2	322.2 242.3 212.3 237.9 231.3 215.7	21.3 16.3 14.8 18.4 19.5 19.9	40.5 31.5 29.6 37.6 38.7 38.5	213.2 156.2 131.8 150.1 149.1 143.1	689.7 517.8 458.8 546.8 444.8 412.4	630.2 454.9 406.2 458.3 367.8 326.3	1 303.0 959.3 878.2 987.6 805.6 734.5	36.5 16.7 21.6 22.2 22.7 19.4	236.5 177.1 165.2 185.8 142.3 119.5	89 (XA) (XA) (XA) (XA)	91 (NA) (NA) (NA) (NA) 86
					INDUST	RY 2591,	DRAPER	Y HARDW	ARE AND B	LINDS AND	SHADES				
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	443 (NA) (NA) (NA) (NA)	489 (NA) (NA) (NA) (NA)	142 (NA) (NA) (NA) (NA)	20.6 18.2 18.4 17.7 16.8	342.2 296.2 294.9 274.8 257.5	15.9 13.7 14.2 13.5 12.5	31.2 26.8 27.3 26.2 24.1	223.5 188.8 189.8 174.2 163.1	898.8 748.5 692.3 660.8 712.4	887.0 822.6 768.3 706.0 649.2	1 780.4 1 570.6 1 473.6 1 354.2 1 332.1	27.3 15.9 26.1 35.1 18.7	338.7 280.7 275.9 289.0 260.8	99 (NA) (NA) (NA) (NA)	97 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM	404 (NA) (NA) (NA) (NA)	435 (NA) (NA) (NA) (NA)	127 (NA) (NA) (NA) (NA)	15.7 15.8 15.7 15.3 15.4	223.7 213.1 199.4 183.8 172.6	11.7 11.2 11.0 11.4 11.7	22.0 21.8 21.1 21.7 22.6	146.8 128.5 119.1 114.5 117.4	556.6 541.5 458.2 438.4 431.8	557.6 570.8 502.6 447.5 406.8	1 114.4 1 080.9 958.4 879.9 834.1	31.3 23.0 24.0 26.6 19.7	211.3 189.2 155.2 145.4 133.6	97 (NA) (NA) (NA) (NA)	97 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM ¹⁰ 1975 ASM 1974 ASM 1973 ASM	435 (NA) (NA) (NA) (NA) 493	456 (NA) (NA) (NA) (NA) 505	85 (NA) (NA) (NA) (NA) 66	13.6 12.6 11.1 12.1 12.6 12.1	145.6 116.3 99.6 99.4 99.9 94.4	10.3 9.6 8.1 8.8 9.1 8.7	20.0 16.1 13.4 15.7 17.3 17.1	99.1 78.6 63.8 64.4 63.3 56.6	345.0 265.0 201.0 225.0 225.0 198.2	331.6 265.7 208.6 205.1 190.3 163.9	675.1 530.5 423.1 414.7 415.3 364.5	16.7 12.4 ⁹ 10.5 8.2 6.7 9.9	115.6 95.4 97.2 110.2 91.3 79.7	95 (NA) (NA) (NA) (NA) 90	96 (NA) (NA) (NA) (NA) 96
						INDUSTF	RY 2599, F	URNITUR	E AND FIXT	URES, N.E.C.					
1987 Census 1986 ASM 1985 ASM 1984 ASM	1 569 (NA) (NA) (NA) (NA)	1 597 (NA) (NA) (NA) (NA)	352 (NA) (NA) (NA) (NA)	29.3 23.9 24.8 23.1 21.6	549.7 449.1 465.0 415.9 374.4	21.6 17.1 18.2 17.0 15.9	41.9 34.0 36.4 34.8 32.5	332.3 273.2 281.2 251.0 230.6	1 171.4 994.0 966.2 866.4 785.9	791.1 719.8 760.9 737.0 691.6	1 959.7 1 713.7 1 724.7 1 599.8 1 457.9	38.3 32.8 42.0 49.6 17.8	266.7 250.5 262.7 245.5 246.8	93 (NA) (NA) (NA) (NA)	90 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	819 (NA) (NA) (NA) (NA)	832 (NA) (NA) (NA)	221 (NA) (NA) (NA) (NA)	20.1 15.6 18.2 18.5 20.1	327.4 242.2 255.6 235.4 239.3	14.9 12.1 14.2 14.4 15.4	29.4 24.7 28.0 30.5 31.0	204.8 155.9 163.4 157.5 155.8	682.0 515.9 538.0 474.8 478.4	595.8 461.6 450.7 422.2 390.2	1 275.7 973.4 992.8 868.9 859.4	30.0 924.8 920.7 920.7 916.6	199.6 161.5 166.9 170.2 151.0	90 (NA) (NA) (NA) (NA)	82 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	528 (NA) (NA) (NA) (NA) 477	541 (NA) (NA) (NA) (NA) 494	195 (NA) (NA) (NA) (NA) 177	18.1 13.5 13.6 14.3 15.9 14.5	201.4 145.6 139.4 141.3 134.6 115.5	13.7 10.5 10.3 11.6 12.6 11.6	27.0 20.0 20.4 23.7 25.0 22.9	131.0 91.5 87.2 91.4 90.5 79.6	401.9 268.4 261.1 274.6 270.1 211.7	310.1 244.2 231.7 201.8 193.0 163.0	705.2 513.6 500.8 470.4 451.5 372.0	12.0 ⁹ 9.3 ⁹ 10.2 ⁹ 10.4 6.8 14.8	120.1 88.8 92.7 94.1 77.5 52.7	87 (NA) (NA) (NA) (NA) 87	82 (NA) (NA) (NA) (NA) 79

In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry chapter.

chapter.

2For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

3Includes establishments with payroll at any time during year.

4Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

5Detailed data on materials consumed by type are shown in table 7.

6Detailed data on new machinery and equipment expenditures are provided in table 3c.

7Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

6Represents ratio of primary products shipment by establishments classified in industry to total shipments of such products by all manufacturing establishments, wherever classified.

6Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

10Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

Table 1b. Selected Operating Ratios for the Industry: 1987 and Earlier Years

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes

text. For explanation of	terms, see append	iixeəj										
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)			
			INDUSTRY 2521, WOOD OFFICE FURNITURE									
1987 Census	18 135 17 185 17 320 16 395 15 576	79 80 78 79 80	1 984 1 914 2 000 1 995 1 964	7.83 7.62 7.30 6.97 6.51	40 40 37 40 41	67 68 64 67 68	40 703 36 847 39 781 36 669 34 260	45 47 44 45 45	26.07 24.11 25.48 23.26 21.86			
1982 Census	14 100 13 663 12 975 12 398 11 417	79 77 76 78 78	1 928 1 993 1 787 2 006 1 942	6.06 5.72 5.57 4.92 4.86	39 40 43 43 42	66 65 69 68 70	31 381 33 409 29 660 29 821 24 297	45 41 44 42 47	20.59 21.71 21.74 19.15 15.98			

Table 1b. Selected Operating Ratios for the Industry: 1987 and Earlier Years—Con.

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory

text. For explanation of			ard modernal clas	- Coronal Coro	LENGTH EXOLOGICS GOL	a for advinarios.	or mounting or abore	The symbol	is, see introductory		
Year	Payroll per employee (dollars)	Production workers es percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)		
			IN	IDUSTRY 2521,	, WOOD OFFICE FURNITURE—Con.						
1977 Census	10 312	80	1 992	4.32	39	66	23 831	43	14.95		
	9 054	84	1 879	4.03	43	75	16 188	56	10.31		
	8 465	84	1 794	3.91	43	77	14 353	59	9.57		
	7 932	85	1 930	3.55	45	76	13 910	57	8.47		
	7 266	84	1 990	3.25	46	80	11 452	63	6.86		
	6 965	83	2 021	3.10	43	75	12 757	55	7.56		
			IND	OUSTRY 2522, O	FFICE FURNITU	JRE, EXCEPT W	OOD				
1987 Census	24 696	72	1 944	11.16	36	59	70 008	35	49.99		
1986 ASM	24 542	70	1 981	11.14	39	62	65 769	37	47.12		
1985 ASM	23 230	71	1 978	10.66	41	64	60 267	39	42.73		
1984 ASM	23 047	73	2 020	10.02	39	62	61 569	37	41.88		
1983 ASM	20 882	73	1 894	9.65	39	64	53 028	39	38.54		
1982 Census	19 968	72	1 949	9.10	40	65	48 093	42	34.17		
	18 622	74	1 981	8.55	41	66	43 424	43	29.49		
	16 642	74	1 980	7.88	41	65	40 539	41	27.70		
	15 604	79	2 017	7.11	42	68	35 564	44	22.45		
	14 061	78	1 992	6.44	42	69	30 906	45	19.80		
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	13 020 11 614 10 793 10 073 9 514 8 989	77 74 73 77 75 75	1 955 1 974 1 984 2 033 2 048 2 063	6.09 5.40 5.02 4.51 4.14 3.92	40 41 41 41 39 41	67 69 68 70 67 70	29 476 25 385 23 393 20 746 21 226 18 460	44 46 46 49 45	19.61 17.49 16.15 13.17 13.74 11.96		
	1		INDUST		C BUILDING AN	ID RELATED FL					
1987 Census	18 202	76	1 988	7.85	57	76	41 335	44	27.31		
1986 ASM	17 454	76	1 897	7.80	50	74	36 144	48	25.08		
1985 ASM	17 448	75	1 962	7.50	49	75	34 349	51	23.49		
1984 ASM	16 913	74	1 981	7.16	49	75	33 039	51	22.42		
1983 ASM	16 691	73	1 921	7.07	49	76	31 906	52	22.65		
1982 Census	15 686	73	1 899	6.71	47	74	30 787	51	22.09		
	14 091	72	1 940	6.09	51	77	27 861	51	19.91		
	12 605	72	1 847	5.66	50	75	25 583	49	19.23		
	11 447	74	1 854	5.14	50	75	23 470	49	17.03		
	11 460	74	1 980	4.71	52	79	20 634	56	14.13		
1977 Census	10 715	75	1 947	4.55	48	76	20 745	52	14.21		
	9 533	77	1 873	4.24	50	76	18 107	53	12.60		
	8 680	78	1 795	4.14	48	75	16 555	52	11.82		
	8 615	78	1 876	3.93	48	76	15 681	55	10.68		
	7 617	78	1 897	3.39	47	77	13 495	56	9.08		
	7 373	78	1 939	3.28	47	76	13 827	53	9.36		
						ONS AND FIXTU					
1987 Census	21 259	75	2 010	9.30	43	74	39 726	54	26.42		
	21 205	77	1 973	9.40	42	73	39 685	53	26.00		
	19 747	77	1 934	9.15	43	73	37 242	53	25.11		
	19 654	76	1 914	9.22	44	74	37 257	53	25.52		
	17 806	77	1 806	8.81	41	71	34 930	53	25.18		
1982 Census	17 129	77	1 930	8.09	42	73	32 085	53	21.69		
1981 ASM	14 742	82	1 867	6.71	45	77	26 175	56	17.17		
1980 ASM	13 810	81	1 839	6.37	45	76	24 823	56	16.58		
1979 ASM	13 028	81	1 902	5.87	46	78	22 782	57	14.83		
1978 ASM	12 781	78	1 935	5.88	45	76	23 294	55	15.46		
1977 Census	12 003	78	1 970	5.32	45	77	21 136	57	13.72		
1976 ASM	10 859	79	1 891	4.96	45	77	18 660	58	12.48		
1975 ASM	10 227	79	1 921	4.69	44	76	17 634	58	11.60		
1974 ASM	9 883	80	1 927	4.49	43	75	17 729	56	11.48		
1973 ASM	8 851	80	1 942	4.03	44	76	15 365	58	9.91		
1972 Census	8 596	79	1 948	3.88	43	77	14 699	58	9.49		
	·		INDUST	RY 2542, PART	TIONS AND FIX	CTURES, EXCER	T WOOD				
1987 Census	20 627	73	2 000	8.76	45	71	44 854	46	30.54		
	19 787	74	1 987	8.56	46	71	42 417	47	28.93		
	19 040	75	1 897	8.46	47	72	40 508	47	28.51		
	18 326	77	1 865	8.18	47	72	39 485	46	27.67		
	17 770	74	1 925	7.61	46	71	37 993	47	26.60		
1982 Census	17 214	73	1 898	7.57	45	70	37 946	45	27.31		
1981 ASM	16 533	76	1 980	6.92	45	69	37 432	44	25.02		
1980 ASM	15 078	74	2 000	6.49	47	71	32 914	46	22.15		
1979 ASM	13 803	77	2 005	5.96	48	72	31 045	44	20.23		
1978 ASM	12 212	76	1 899	5.55	48	72	26 822	46	18.68		
1977 Census 1976 ASM 1975 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	11 507 11 063 10 109 9 292 8 794 8 232	76 74 70 72 74 76	1 901 1 933 2 000 2 043 1 985 1 935	5.26 4.96 4.45 3.99 3.85 3.72	48 47 46 46 46 44	73 73 70 70 74 74	24 632 23 644 21 848 21 359 16 913 15 740	47 47 46 44 52	17.03 16.44 15.50 14.54 11.49		

Table 1b. Selected Operating Ratios for the Industry: 1987 and Earlier Years-Con.

[1987 industry definitions are the same as in the 1972/77 Standard Industrial Classification (SIC) system. Excludes date for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Production workers es percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of meterials as percent of value of shipments (percent)	Cost of meterials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of velue added (percent)	Value added per production worker hour (dollars)
			INDUSTRY	2591, DRAPER	RY HARDWARE	AND BLINDS A	ND SHADES		
1987 Census	16 612 16 274 16 027 15 525 15 327	77 75 77 76 74	1 962 1 956 1 923 1 941 1 928	7.16 7.04 6.95 6.65 6.77	50 52 52 52 52 49	69 71 72 72 68	43 631 41 126 37 625 37 333 42 405	38 40 43 42 36	28.81 27.93 25.36 25.22 29.56
1982 Census 1981 ASM 1980 ASM 1979 ASM	14 248 13 487 12 700 12 013 11 207	75 71 70 75 76	1 880 1 946 1 918 1 904 1 932	6.67 5.89 5.64 5.28 5.19	50 53 52 51 49	70 73 73 72 69	35 452 34 272 29 185 28 654 28 039	40 39 44 42 40	25.30 24.84 21.72 20.20 19.11
1977 Census	10 705 9 230 8 972 8 214 7 928 7 801	76 76 73 73 72 72	1 942 1 677 1 654 1 784 1 901 1 966	4.95 4.88 4.76 4.10 3.66 3.31	49 50 49 49 46 45	71 72 73 73 70 71	25 368 21 032 18 108 18 595 17 857 16 380	42 44 50 44 44 48	17.25 16.46 15.00 14.33 13.01 11.59
		<u>' </u>	IN	DUSTRY 2599, I	FURNITURE AN	D FIXTURES, N	.E.C.		
1987 Census	18 761 18 790 18 750 18 004 17 333	74 72 73 74 74	1 940 1 988 2 000 2 047 2 044	7.93 8.04 7.73 7.21 7.10	40 42 44 46 47	68 68 71 72 73	39 980 41 590 38 960 37 506 36 384	47 45 48 48 48	27.96 29.24 26.54 24.90 24.18
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	16 288 15 525 14 043 12 724 11 905	74 78 78 78 78	1 973 2 041 1 972 2 118 2 013	6.97 6.31 5.84 5.16 5.03	47 47 45 49 45	72 72 71 76 73	33 930 33 071 29 560 25 665 23 801	48 47 48 50 50	23.20 20.89 19.21 15.57 15.43
1977 Census	11 127 10 785 10 250 9 881 8 465 7 965	76 78 76 81 79 80	1 971 1 905 1 981 2 043 1 984 1 974	4.85 4.57 4.27 3.86 3.62 3.48	44 48 46 43 43 44	73 76 74 73 73 75	22 204 19 881 19 199 19 203 16 987 14 600	50 54 53 51 50 55	14.89 13.42 12.80 11.59 10.80 9.24

Note: For qualifications of data, see footnotes on table 1a.

Table 2. Industry Statistics for Selected States: 1987 and 1982

(Excludes data for auxiliaries. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes

[Excludes data for auxiliaries. States	s with	n 150 emp	loyees or	more are s	hown. For r	neaning of	abbreviation	ons and syn	nbols, see intro	ductory text.	For explanation	n of terms, s	see append	ixes]
	1987													1982
		All estab	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2521, WOOD OFFICE FURNITURE														
United States	E1	649	233	31.0	56 2.2	24.4	48.4	3 79.0	1 261.8	829.0	2 084.1	48.3	21.0	659. 0
Alabama Arizona Arkansas California Connecticut	E4 E1 E1 E7	9 17 9 134 7	2 2 3 47 3	BB AA AA 4.7 BB	(D) (D) (D) 77.8 (D)	(D) (D) (D) 3.6 (D)	(D) (D) (D) 6.8 (D)	(D) (D) (D) 49.4 (D)	(D) (D) (D) 170.2 (D)	(D) (D) (D) 98.2 (D)	(D) (D) (D) 267.6 (D)	(D) (D) (D) (D)	BB (NA) (NA) 4.4 CC	(D) (NA) (NA) 147.2 (D)
Florida Georgia Illinois Indiana Iowa	E4 E2 E2	48 16 21 31 3	7 6 8 23 2	.6 EE BB FF BB	9.3 (D) (D) (D) (D)	.4 (D) (D) (D) (D)	.9 (D) (D) (D) (D)	6.0 (D) (D) (D) (D)	17.6 (D) (D) (D) (D)	11.1 (D) (D) (D) (D)	28.7 (D) (D) (D) (D)	.7 (D) (D) (D) (D)	.5 BB CC 3.1 AA	10.4 (D) (D) 110.7 (D)
Yentucky Maryland Massachusetts Michigan Minnesota	E1 E2 E1 E4	7 15 9 31 16	5 4 3 16 6	CC BB AA 2.2 CC	(D) (D) (D) 46.3 (D)	(D) (D) (D) 1.7 (D)	(D) (D) (D) 3.4 (D)	(D) (D) (D) 33.2 (D)	(D) (D) (D) 75.1 (D)	(D) (D) (D) 52.7 (D)	(D) (D) (D) 125.6 (D)	(D) (D) (D) (D)	BB (NA) BB EE AA	(D) (NA) (D) (D) (D)
Mississippi	E1 E1	8 15 54 39 12	4 7 18 25 4	CC CC 2.4 6.6 BB	(D) (D) 49.0 113.5 (D)	(D) (D) 1.7 5.4 (D)	(D) (D) 3.3 10.4 (D)	(D) (D) 31.3 78.3 (D)	(D) (D) 107.9 275.9 (D)	(D) (D) 65.2 184.2 (D)	(D) (D) 171.7 456.5 (D)	(D) (D) 3.5 12.6 (D)	BB .3 1.4 4.6 (NA)	(D) 8.7 48.9 126.4 (NA)
Pennsylvania Tervas Washington Wisconsin	E5	19 31 21 10	6 10 8 4	.9 CC .6 .5	15.0 (D) 10.4 7.9	.8 (D) .4 .4	1.5 (D) .8 .7	10.4 (D) 6.6 5.3	42.9 (D) 22.6 21.7	20.7 (D) 13.5 14.5	63.0 (D) 35.6 36.2	1.2 (D) (D) (D)	.8 .5 .4 AA	22.4 12.0 21.5 (D)

Table 2. Industry Statistics for Selected States: 1987 and 1982—Con.

[Excludes data for auxiliaries. States	s with	150 emp	loyees or	more are s	hown. For r	neaning of	abbreviation 198		bols, see intro	ductory text.	For explanation	n of terms, s		1982
		All establ	ishments	All em	ployees	Pro	duction wo							
Industry and geographic area	E¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2522, OFFICE FURNITURE, EXCEPT WOOD														
United States	-	337	206	49.7	1 227.4	35.8	69.6	776.4	3 479.4	1 987.9	5 453.6	234.1	3 7.8	1 817.9
Alabama Arkansas California Connecticut Delaware Florida	E1 -	8 4 58 3 1	4 4 36 2 1	EE CC 5.3 BB BB	(D) (D) 125.2 (D) (D)	(D) (D) 4.0 (D) (D)	(D) (D) 8.0 (D) (D)	(D) (D) 85.4 (D) (D)	(D) (D) 411.4 (D) (D)	(D) (D) 213.9 (D) (D)	(D) (D) 623.3 (D) (D)	(D) (D) (D) (D) (D)	CC AA 4.2 AA BB	(D) (D) 237.5 (D) (D)
Georgia Illinois Indiana Iowa	1	7 15 10 6	5 8 8 4	CC EE CC EE	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	.2 CC EE .8 EE	(D) (D) 25.1 (D)
Kansas Massachusetts Michigan Minnesota Mississippi		5 8 26 5 2	4 3 22 3 2	BB CC 16.2 BB BB	(D) (D) 522.4 (D) (D)	(D) (D) 10.7 (D) (D)	(D) (D) 20.8 (D) (D) (D)	(D) (D) 306.0 (D) (D)	(D) (D) 1 408.8 (D) (D)	(D) (D) 699.1 (D) (D)	(D) (D) 2 104.8 (D) (D)	(D) (D) (D) (D) (D)	AA CC FF BB (NA)	(D) (D) (D) (D) (NA)
Missouri	E1 E4 -	11 32 20 12	8 18 11 9	2.3 1.5 EE	(D) 44.6 29.4 (D)	(D) 1.6 1.2 (D)	(D) 3.2 2.4 (D)	(D) 25.6 21.7 (D)	(D) 92.5 71.9 (D)	(D) 48.5 65.8 (D)	(D) 139.7 136.6 (D)	(D) 5.2 (D) (D)	1.5 2.5 1.1 1.8	24.6 71.5 52.3 57.3
Pennsylvania Tennessee Texas Virginia Washington Wisconsin		22 5 12 4 8 11	14 4 6 3 5 8	4.2 EE EE CC .4 1.3	94.1 (D) (D) (D) 7.2 28.6	3.2 (D) (D) (D) .3	5.5 (D) (D) (D) .6 1.7	64.7 (D) (D) (D) 4.4 14.9	214.0 (D) (D) (D) 12.5 85.6	160.7 (D) (D) (D) 12.4 53.8	368.6 (D) (D) (D) 25.0 139.3	10.0 (D) (D) (D) (D) (D)	3.7 CC 1.1 CC (NA) EE	161.1 (D) 33.8 (D) (NA) (D)
INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE														
United States		491	209	21.8	396.8	16.6	33.0	259.1	901.1	1 191.3	2 088.3	45 .0	18.8	5 7 8.8
Alabama Arizona Arkansas California Colorado	E1 - - E2	14 6 13 48 6	7 3 7 24 2	.5 .2 1.9 2.7 .2	7.3 4.8 37.0 46.6 5.1	.4 .1 1.4 2.1 .1	.8 .3 2.9 4.0 .3	5.2 2.9 23.0 31.0 2.2	18.3 10.1 95.0 91.3 11.1	16.3 7.1 76.1 118.3 4.9	34.4 17.2 169.9 208.5 15.6	.6 .4 1.6 (D) (D)	.3 (NA) 1.6 1.4 BB	5.9 (NA) 57.9 38.2 (D)
Connecticut	E1 E2 E7 E1 E2	5 25 18 21 40	2 4 2 10 19	CC .4 .2 CC 2.1	(D) 7.2 2.0 (D) 32.9	(D) .2 .1 (D) 1.7	(D) .5 .3 (D) 3.4	(D) 3.1 1.4 (D) 24.4	(D) 18.8 4.5 (D) 55.9	(D) 13.9 4.0 (D) 70.6	(D) 32.6 8.5 (D) 126.2	(D) .8 .1 (D) 3.8	EE .3 (NA) .8 .7	(D) 5.8 (NA) 29.3 17.0
lowa Kansas Maine Maryland Massachusetts	E2 E3 - E1	6 7 1 5 12	6 5 1 3 3	BB AA BB BB BB	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(D) (D) (D) (D)	.4 (NA) BB (NA) (NA)	15.7 (NA) (D) (NA) (NA)
Michigan Minnesota Mississippi Missouri New Jersey		37 8 4 8 8	22 4 2 4 3	2.1 BB BB BB BB	42.5 (D) (D) (D) (D)	1.6 (D) (D) (D) (D)	3.2 (D) (D) (D) (D)	29.0 (D) (D) (D) (D)	116.6 (D) (D) (D) (D)	316.9 (D) (D) (D) (D)	433.0 (D) (D) (D) (D)	(D) (D) (D) (D)	1.9 .6 CC .6 .4	77.4 25.0 (D) 19.3 17.6
New York	E4 E2 E2 E4	15 20 20 18 14	5 5 8 7 9	AA CC .8 .8	(D) (D) 14.4 12.7 13.9	(D) (D) .6 .5	(D) (D) 1.3 1.0 1.3	(D) (D) 8.8 7.8 9.0	(D) (D) 27.0 22.7 40.8	(D) (D) 23.5 28.1 61.8	(D) (D) 50.5 49.8 103.3	(D) (D) (D) .9	.4 1.2 .7 .5 1.0	11.3 35.1 22.9 11.3 18.5
Texas	E2 E6 -	39 7 12 10	17 4 3 6	1.6 BB .2 .7	24.0 (D) 4.5 14.6	1.2 (D) .2 .5	2.5 (D) .3 1.0	14.7 (D) 2.8 8.5	49.5 (D) 9.8 26.9	50.7 (D) 8.6 18.2	99.0 (D) 18.3 45.1	(D) (D) (D) 2.3	1.8 BB .3 .8	44.4 (D) 9.0 22.6
INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES														
United States	E2	1 866	557	40.5	861.0	30.3	60.9	566.6	1 608.9	1 211.6	2 814.9	65.7	31.7	1 017.1
Alabama Arizona Arkansas California Colorado	E2 E1 E3 E4	19 40 12 297 33	6 3 5 89 7	.4 BB BB 6.0 .7	7.5 (D) (D) 147.4 12.5	.3 (D) (D) 4.4 .5	.6 (D) (D) 8.8 1.0	4.9 (D) (D) 95.5 8.2	16.0 (D) (D) 251.2 22.5	18.6 (D) (D) 167.7 16.8	34.6 (D) (D) 415.8 39.5	.8 (D) (D) 7.9 (D)	.8 AA (NA) 4.7 CC	20.9 (D) (NA) 166.5 (D)
Connecticut	E4 E3 -	23 104 42 103 49	4 22 12 34 12	BB 1.4 EE EE CC	(D) 24.4 (D) (D) (D)	(D) 1.0 (D) (D) (D)	(D) 2.1 (D) (D) (D)	(D) 16.4 (D) (D) (D)	(D) 42.8 (D) (D) (D)	(D) 28.4 (D) (D) (D)	(D) 71.6 (D) (D) (D)	(D) 1.3 (D) (D) (D)	AA 1.2 .9 2.6 .5	(D) 33.2 25.1 97.0 14.7

Table 2. Industry Statistics for Selected States: 1987 and 1982—Con.

[Excludes data for auxilianes. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[Excludes data for auxilianes. State	s with	150 emp	loyees or	more are s	hown. For r	neaning of			bols, see intro	ductory text. I	or explanation	of terms, s		
		All establ	lichmonte	All om	ployees	Pro	198 duction wo							1982
Industry and geographic area	E1	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES—Con.														
Kansas Kentucky Maryland Massachusetts Michigan	E1 E5 E2 E3	9 19 39 52 62	4 6 9 13 21	AA BB .5 CC 1.2	(D) (D) 11.8 (D) 31.4	(D) (D) .4 (D) .9	(D) (D) .8 (D) 1.8	(D) (D) 8.2 (D) 18.5	(D) (D) 21.0 (D) 58.7	(D) (D) 14.3 (D) 48.5	(D) (D) 35.6 (D) 107.5	(D) (D) (D) (D)	.3 BB .4 .5 1.2	8.8 (D) 10.3 15.2 44.5
Minnesota Missouri Nebsaska New Hampshire New Jersey	- E1 E1	55 36 6 12 63	14 15 2 4 22	EE .6 BB BB 1.4	(D) 12.5 (D) (D) 33.9	(D) .5 (D) (D) 1.0	(D) .9 (D) (D) 2.1	(D) 8.1 (D) (D) 22.4	(D) 25.5 (D) (D) 62.2	(D) 16.1 (D) (D) 42.0	(D) 38.8 (D) (D) 102.3	(D) 1.0 (D) (D) 2.2	.6 .5 BB BB .8	25.8 15.2 (D) (D) 23.2
New Mexico New York North Carolina Ohio Oklahoma	E1 E3 - E2	13 155 38 95 14	2 52 14 29 5	.2 4.0 EE 2.1 CC	2.6 94.0 (D) 40.4 (D)	.1 3.1 (D) 1.5 (D)	.2 6.5 (D) 2.9 (D)	1.9 67.4 (D) 25.6 (D)	3.9 175.6 (D) 78.8 (D)	3.8 116.8 (D) 72.0 (D)	7.9 297.2 (D) 148.9 (D)	.1 5.1 (D) (D) (D)	(NA) 3.4 1.1 1.4 CC	(NA) 112.9 29.5 53.1 (D)
Oregon Pennsylvania Rhode Island South Carolina Tennessee	E1 E2 E1	32 81 11 8 33	8 30 5 3	BB 2.7 BB .5 CC	(D) 57,4 (D) 8.5 (D)	(D) 2.0 (D) .4 (D)	(D) 4.0 (D) .7 (D)	(D) 36.5 (D) 4.3 (D)	(D) 122.8 (D) 14.8 (D)	(D) 76.5 (D) 11.2 (D)	(D) 198.5 (D) 26.2 (D)	(D) 4.4 (D) (D) (D)	AA 1.7 BB BB .8	(D) 55.0 (D) (D) 14.8
Texas Utah Virginia Washington Wisconsin	E2 E2 E1 E1	84 14 35 44 53	30 4 12 13 22	2.0 BB CC .7 1.6	35.8 (D) (D) 14.7 25.6	1.5 (D) (D) .5 1.2	2.9 (D) (D) .9 2.4	23.4 (D) (D) 9.4 16.7	62.8 (D) (D) 25.6 46.9	55.9 (D) (D) 18.2 38.6	119.1 (D) (D) 45.0 85.5	(D) (D) (D) .7 3.4	1.7 .3 CC .4 .9	46.7 11.3 (D) 14.5 31.4
INDUSTRY 2542, PARTITIONS AND FIXTURES, EXCEPT WOOD														
United States	E1	592	299	33.5	691.0	24.6	49.2	430 .8	1 502.6	1 237.9	2 721.3	59.2	28.0	1 062.5
Alabama Arkansas California Connecticut Florida	E1 E1 E6 E4	6 5 95 10 16	4 3 40 4 8	1.2 EE 2.9 AA 1.0	21.3 (D) 58.7 (D) 16.4	.9 (D) 2.2 (D) .8	2.0 (D) 4.2 (D) 1.6	14.8 (D) 35.8 (D) 9.6	55.3 (D) 132.4 (D) 37.2	54.6 (D) 91.0 (D) 27.4	107.8 (D) 220.6 (D) 63.2	2.8 (D) 5.2 (D) 2.0	.4 EE 2.8 .3 .5	13.1 (D) 98.9 17.7 14.5
Georgia Illinois Indiana Iowa Kansas	E1 - -	23 60 12 3 6	14 35 10 3 3	EE 4.6 EE BB AA	(D) 102.6 (D) (D) (D)	(D) 3.4 (D) (D) (D)	(D) 7.1 (D) (D) (D)	(D) 66.3 (D) (D) (D)	(D) 240.9 (D) (D) (D)	(D) 221.5 (D) (D) (D)	(D) 458.1 (D) (D) (D)	(D) 14.0 (D) (D) (D)	.5 3.3 1.4 (NA) .2	21.2 136.2 36.3 (NA) 6.1
Maryland	E2 E1 - -	5 11 35 12 4	2 6 19 6 4	.2 CC 1.7 EE BB	3.0 (D) 39.3 (D) (D)	.1 (D) 1.2 (D) (D)	.3 (D) 2.5 (D) (D)	2.4 (D) 23.1 (D) (D)	5.4 (D) 86.2 (D) (D)	2.7 (D) 66.4 (D) (D)	7.9 (D) 152.2 (D) (D)	(D) (D) (D) (D)	(NA) .5 1.3 .8 BB	(NA) 17.8 52.5 24.5 (D)
Missouri Nebraska New Jersey New York Ohio	E1 E1 E3	18 3 31 81 35	6 2 20 38 19	1.0 CC 2.0 3.1 2.0	18.9 (D) 41.7 59.0 39.3	.7 (D) 1.5 2.4 1.4	1.3 (D) 2.8 4.9 2.9	10.5 (D) 25.5 38.6 24.5	45.7 (D) 87.0 121.6 85.3	34.1 (D) 99.2 96.4 76.5	78.9 (D) 183.4 217.9 162.4	2.1 (D) 2.0 3.0 (D)	.5 CC 1.5 3.3 2.4	14.5 (D) 46.1 116.3 105.1
Pennsylvania Rhode Island Tennessee Tennessee Teyas Wisconsin	E4 E1	32 7 6 19 10	19 4 4 8 5	2.7 AA CC .9 .4	69.4 (D) (D) 16.0 10.0	1.7 (D) (D) .6 .3	3.5 (D) (D) 1.3 .6	37.0 (D) (D) 10.0 5.3	139.2 (D) (D) 24.6 19.2	103.2 (D) (D) 39.0 12.9	241.6 (D) (D) 65.4 32.0	5.1 (D) (D) (D) .2	3.3 (NA) .7 1.0 .3	141.2 (NA) 31.0 35.3 10.5
INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES										,				
United States	E1	489	142	20.6	342.2	15.9	31.2	223 .5	898.8	887.0	1 780.4	27.3	15.7	556.6
Arizona California Connecticut Florida Georgia	E1 E6 E2	6 65 12 79 10	1 18 5 15	AA 4.0 BB 1.3 CC	(D) 60.4 (D) 20.5 (D)	(D) 3.1 (D) .9 (D)	(D) 5.7 (D) 1.8 (D)	(D) 37.5 (D) 12.3 (D)	(D) 144.2 (D) 53.3 (D)	(D) 144.7 (D) 59.0 (D)	(D) 293.3 (D) 110.1 (D)	(D) (D) (D) (D) (D)	(NA) 2.6 CC .7 .6	(NA) 77.1 (D) 21.0 21.2
Illinois	E1 - E2 E3	28 10 5 11 16	9 6 2 3 3	1.6 CC BB .2 AA	28.4 (D) (D) 2.9 (D)	1.2 (D) (D) .1	2.4 (D) (D) .3 (D)	17.4 (D) (D) 1.7 (D)	89.5 (D) (D) 5.6 (D)	64.0 (D) (D) 5.8 (D)	154.5 (D) (D) 11.7 (D)	(D) (D) (D) (D) (D)	1.3 .3 AA CC (NA)	39.7 9.0 (D) (D) (NA)
Michigan	E1 E5	9 25 63 17 2	10 12 8	CC 1.8 EE 1.5 CC	(D) 25.2 (D) 24.1 (D)	(D) 1.3 (D) 1.2 (D)	(D) 2.8 (D) 2.3 (D)	(D) 21.6 (D) 11.3 (D)	(D) 57.1 (D) 42.1 (D)	(D) 38.5 (D) 68.1 (D)	(D) 102.1 (D) 109.4 (D)	(D) 1.0 (D) .7 (D)	CC 1.5 1.1 .6 CC	(D) 50.8 32.1 21.3 (D)

Industry Statistics for Selected States: 1987 and 1982—Con.

[Excludes data for auxiliaries. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					*******		198	7						1982
		All estab	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES—Con.														
South Carolina Tennessee Texas Utah Virginia	E2 E2 E8	2 3 32 3 13	1 3 11 3 1	BB BB EE CC	(D) (D) (D) (D) 3.2	(D) (D) (D) (D)	(D) (D) (D) (D) .2	(D) (D) (D) (D) 1.8	(D) (D) (D) (D) 7.2	(D) (D) (D) (D) 6.9	(D) (D) (D) (D) 14.1	(D) (D) (D) (D)	(NA) BB .7 BB (NA)	(NA) (D) 28.5 (D) (NA)
Washington West Virginia Wisconsin	E2 -	5 1 6	3 1 3	.2 BB EE	2.6 (D) (D)	.2 (D) (D)	.3 (D) (D)	2.0 (D) (D)	8.4 (D) (D)	5.1 (D) (D)	14.3 (D) (D)	(D) (D) (D)	(NA) AA EE	(NA) (D) (D)
INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.														
United States	E 2	1 597	352	29.3	549.7	21.6	41.9	332.3	1 171.4	791.1	1 959.7	38.3	20.1	682.0
AlabamaArizonaArkansasCaliforniaColorado	E4 E5 E5 E3 E2	36 23 15 229 25	9 6 3 50 5	.6 BB AA 4.2 .4	7.3 (D) (D) 74.1 7.0	.5 (D) (D) 3.1 .3	.8 (D) (D) 6.0 .6	4.6 (D) (D) 46.8 4.7	14.2 (D) (D) 149.8 15.4	10.1 (D) (D) 100.3 i4.0	24.2 (D) (D) 250.3 29.0	.5 (D) (D) (D) .5	(NA) (NA) AA 2.2	(NA) (NA) (D) 70.9 5.8
Connecticut Florida Georgia Illinois Indiana	E7 E3 E2 E2	165 165 55 56 28	5 29 13 18 14	BB 2.2 CC EE EE	(D) 30.1 (D) (D) (D)	(D) 1.6 (D) (D) (D)	(D) 2.9 (D) (D) (D)	(D) 17.9 (D) (D) (D)	(D) 56.3 (D) (D) (D)	(D) 50.6 (D) (D) (D)	(D) 106.9 (D) (D)	(D) (D) (D) (D)	(NA) 1.4 .7 2.1 1.6	(NA) 42.0 20.6 70.8 82.4
Kansas	E9 E5 E2 E1	12 14 27 27 27 38	4 4 3 8 12	BB BB .3 CC EE	(D) (D) 6.2 (D) (D)	(D) (D) .2 (D) (D)	(D) (D) .5 (D) (D)	(D) (D) 3.9 (D) (D)	(D) (D) 13.4 (D) (D)	(D) (D) 8.1 (D) (D)	(D) (D) 21.3 (D) (D)	(D) (D) (D) (D)	BB (NA) BB .5 BB	(D) (NA) (D) 19.4 (D)
Minnesota Mississippi Missouri New Jersey New York	E1 E2 E1 E5 E3	26 48 30 57 144	7 16 12 13 21	CC EE EE CC 1.8	(D) (D) (D) (D) 34.7	(D) (D) (D) (D) 1.3	(D) (D) (D) (D) 2.6	(D) (D) (D) (D) 21.7	(D) (D) (D) (D) 77.5	(D) (D) (D) (D) (D) 52.7	(D) (D) (D) 129.6	(D) (D) (D) (D) 1.7	.3 BB .8 .5 2.0	8.2 (D) 34.4 14.8 65.0
North Carolina Ohio Oklahoma Oregon Pennsylvania	E8 E2 E5 E3 E2	72 37 13 28 50	10 12 4 4 9	CC 1.1 AA BB .8	(D) 24.8 (D) (D) 20.3	(D) .8 (D) (D) .6	(D) 1.6 (D) (D) 1.2	(D) 14.7 (D) (D) 12.2	(D) 55.9 (D) (D) 39.1	(D) 48.4 (D) (D) 27.6	(D) 103.5 (D) (D) 65.5	(D) (D) (D) (D) 1.3	CC .6 AA BB .7	(D) 22.6 (D) (D) 25.6
South Carolina	E1 E4 E3 E2 E1 E4	22 37 75 8 21 33 28	6 12 14 2 4 5 7	BB EE CC AA .4 .4 CC	(D) (D) (D) (D) 7.2 8.6 (D)	(D) (D) (D) (D) 33 3 (D)	(D) (D) (D) (D) .5 .5 (D)	(D) (D) (D) (D) 4.8 4.5 (D)	(D) (D) (D) (D) 13.0 16.9 (D)	(D) (D) (D) (D) 7.6 15.2 (D)	(D) (D) (D) (D) 20.6 32.1 (D)	(D) (D) (D) (D) .2 (D) (D)	(NA) EE .7 (NA) .3 BB CC	(NA) (D) 21.0 (NA) 8.4 (D) (D)

Note: For qualifications of data, see footnotes on table 1a.

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

25tatistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 3a. Summary Statistics for the Industry: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

ltem	Wood office furniture (SIC 2521)	Office furniture, except wood (SIC 2522)	Public building and related furniture (SIC 2531)	Wood partitions and fixtures (SIC 2541)	Partitions and fixtures, except wood (SIC 2542)	Drapery hard- ware and blinds and shades (SIC 2591)	Furniture and fixtures, n.e.c. (SIC 2599)
Companiesnumber_	625	291	465	1 832	567	443	1 569
All establishments do. With 1 to 19 employees do. With 20 to 99 employees do. With 100 employees or more do.	649 416 149 84	337 131 100 106	491 282 153 56	1 866 1 309 485 72	592 293 206 93	489 347 97 45	1 597 1 245 295 57

Table 3a. Summary Statistics for the Industry: 1987-Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

The meaning of accreviations and symbols, see introductory text. To explanation of	i terms, see appi	endixesj					
ltem	Wood office furniture (SIC 2521)	Office furniture, except wood (SIC 2522)	Public building and related furniture (SIC 2531)	Wood partitions and fixtures (SIC 2541)	Partitions and fixtures, except wood (SIC 2542)	Drapery hard- ware and blinds and shades (SIC 2591)	Furniture and fixtures, n.e.c. (SIC 2599)
Employment and labor costs: Employees	31.0	49.7	21.8	40.5	33.5	20.6	29.3
	680.7	1 562.8	483.9	1 041.7	851.2	440.8	650.0
	562.2	1 227.4	396.8	861.0	691.0	342.2	549.7
	118.5	335.4	87.0	180.7	160.2	98.6	100.3
	53.0	123.1	43.1	85.6	67.8	41.2	46.6
	65.5	212.3	44.0	95.0	92.5	57.4	53.7
Production workers: 1,000_ Average for year 00_ March do_ May do_ August do_ November do_	24.4	35.8	16.6	30.3	24.6	15.9	21.6
	23.7	34.7	16.2	29.5	24.1	15.4	21.3
	24.2	35.0	16.4	29.8	24.2	15.7	21.6
	24.5	36.3	16.9	30.5	24.9	16.2	21.5
	24.9	37.0	16.6	30.8	24.8	16.1	21.7
Hours	48.4	69.6	33.0	60.9	49.2	31.2	41.9
	11.7	16.6	8.0	14.7	12.0	7.5	10.2
	12.1	17.0	8.1	15.0	12.1	7.7	10.5
	12.1	17.6	8.5	15.5	12.6	8.0	10.5
	12.5	18.4	8.3	15.7	12.6	8.0	10.7
Wagesmil dol	379.0	776.4	259.1	566.6	430.8	223.5	332.3
Value added by manufacturedo	1 261.8	3 479.4	901.1	1 608.9	1 502.6	898.8	1 171.4
Cost of materials¹ do. Materials, parts, containers, etc., consumed² do. Resales do. Fuels do. Purchased electricity do. Contract work do.	829.0	1 987.9	1 191.3	1 211.6	1 237.9	887.0	791.1
	710.0	1 799.8	1 102.4	1 044.8	1 048.4	734.0	661.8
	78.2	94.2	53.4	60.2	87.7	131.7	88.6
	7.5	23.0	6.7	11.9	19.6	5.5	9.2
	20.6	40.6	12.3	24.1	25.2	9.8	13.7
	12.7	30.3	16.6	70.7	56.9	6.0	17.9
Quantity of electric energy used for heat and power: Purchased	351.4	675.9 (D)	229.8	437.5	416.8	163.6	245.9
Total value of shipments	2 084.1 1 833.9 141.1 109.0 103.3 (D)	5 453.6 5 030.5 293.6 129.5 120.8 (D)	2 088.3 1 861.0 153.1 74.2 67.1 2.7 4.4	2 814.9 2 507.5 167.1 140.3 88.1 7.2 45.1	2 721.3 2 274.1 285.2 162.1 114.3 17.0 30.7	1 780.4 1 613.1 11.3 156.0 152.8 .9 2.4	1 959.7 1 698.3 121.3 140.0 118.4 13.9 7.7
Inventories by stage of fabrication:	328.9	599.1	208.9	337.3	416.6	306.9	266.9
	78.4	165.4	44.3	97.6	147.1	134.7	65.7
	99.4	132.3	50.3	99.1	100.2	40.0	71.1
	151.1	301.3	114.4	140.6	169.3	132.1	130.2
End of 1987	341.7	645.7	222.9	347.5	449.9	338.7	266.7
	81.1	176.2	49.1	100.7	158.6	139.5	66.9
	103.5	135.3	49.6	101.6	107.9	40.6	72.8
	157.0	334.2	124.2	145.1	183.4	158.7	127.1
Primary product specialization ratiopercent Coverage ratiodo	93	94	92	94	89	99	93
	91	96	92	90	93	97	90

Note: For qualifications of data, see footnotes on table 1a.

Table 3b. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1987

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

ltem	Wood office furniture (SIC 2521)	Office furniture, except wood (SIC 2522)	Public building and related furniture (SIC 2531)	Wood partitions and fixtures (SIC 2541)	Partitions and fixtures, except wood (SIC 2542)	Drapery hard- ware and blinds and shades (SIC 2591)	Furniture and fixtures, n.e.c. (SIC 2599)
Gross book value of depreciable assets: Total: Beginning of year New capital expenditures! Used capital expenditures Retrements End of year Buildings and other structures: Beginning of year New capital expenditures Used capital expenditures Retirements End of year Machinery and equipment: Beginning of year New capital expenditures End of year Sequentifications of year New capital expenditures Retirements End of year New capital expenditures Retirements End of year New capital expenditures Retirements End of year Sequentifications of year New capital expenditures Retirements End of year Retirements End of year	510.0 48.3 7.6 7.6 558.2 236.8 10.2 3.4 2.5 247.9 273.1 38.1 4.2 5.1,1	1 654.9 234.1 6.2 17.9 1 877.3 682.2 100.0 3.6 3.8 782.0 972.7 134.1 2.6 14.2	320.0 45.0 3.6 6.5 362.1 112.9 13.7 1.9 1.4 127.1 207.1 31.3 1.7 5.1 235.0	535.5 65.7 6.9 10.2 597.9 241.6 18.2 3.0 3.7 259.1 294.0 47.4 3.8 6.5 338.7	705.4 59.2 7.1 27.7 744.0 226.8 9.9 3.7 9.5 230.9 478.6 49.3 3.5 18.2 513.1	271.7 27.3 1.8 7.9 292.9 104.0 3.5 1.2 .3 108.4 167.7 23.8 .6 7.6 184.5	351.2 38.3 4.4 6.8 387.1 125.3 10.4 1.9 1.2 136.4 225.9 28.0 2.5 5.6 250.7
Depreciation charges during 1987: Total Buildings and other structures Machinery and equipment	41.4 11.9 29.4	149.2 40.5 108.7	29.4 6.3 23.1	50.9 20.6 30.4	58.7 11.2 47.5	25.1 5.1 20.0	34.3 6.9 27.3

¹Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3c. ²Data on materials consumed by type are shown in table 7. Data on amount purchased or transferred from foreign sources are shown in table 3c.

Table 3b. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1987—Con.

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

ltem	Wood office furniture (SIC 2521)	Office furniture, except wood (SIC 2522)	Public building and related furniture (SIC 2531)	Wood partitions and fixtures (SIC 2541)	Partitions and fixtures, except wood (SIC 2542)	blinds and shades	Furniture and fixtures, n.e.c. (SIC 2599)
Rental payments: Total Buildings and other structures Machinery and equipment	26.2	38.1	18.9	50.7	30.2	21.9	30.7
	14.7	20.5	9.3	26.8	14.4	10.1	18.3
	11.5	17.6	9.6	23.9	15.8	11.8	12.3

Note: Retirements and depreciation data for establishments not included in the ASM sample were extrapolated from the historical ratio of retirements or depreciation to assets. These ratios were developed at the industry level.

Wood office furniture

Office furniture, except

Public building and related furniture

Table 3c. Supplemental Industry Statistics Based on Sample Estimates: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	(SIC 2	2521)		2522)	related fu (SIC 2			ctures C 2541)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amoun (millior dollars	estimate ¹	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amoun (millior dollars	estimate ¹
Purchased services: Cost of purchased services for the repair of— Buildings and other structures— Response coverage ratio (percent) ² — Machinery————————————————————————————————————	4.8 63.9 7.4 65.0 3.6 58.8	(X) (X) (X) (X) (X) (X)	9.0 68.7 13.7 72.6 11.4 70.8	7 (X) 7 (X) 6 (X) 4 (X)	2.2 72.4 3.5 70.9 4.8 75.8	(X) (X) (X) (X) (X) (X) (X) (X)	1.6 50.0 53.7 3.3 53.0	(X) (X) (X) (X) (X)
New machinery and equipment expenditures	38.1 3.8 1.8 32.4 1.3	(X) 9 11 2 (X)	134.1 4.0 10.0 120.1	5 7 1	31.3 2.7 2.1 26.5 1.3	(X) 50 19 7 (X)	47.4 10.2 3.9 33.4 1.9	244 27 14
Cost of materials, components, parts, etc., used	710.0 38.4 671.6 1.5	(X) 39 3 (X)	1 799.8 90.6 1 709.2 1.5	5 1	1 102.4 54.2 1 048.1 1.7	(X) 15 1 (X)	1 044.8 42.9 1 001.9 2.0	61
		and fixtures, e wood SIC 2542)	xcept D	rapery hardward sha (SIC 2	des	d Furn	iture and fix (SIC 25	
ltem	Amo (mill dolla	unt ion e	Relative standard error of stimate ¹ percent)	Amount (million dollars)	Relati standa error estimat (percer	rd of e ¹	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services: Cost of purchased services for the repair of— Buildings and other structures Response coverage ratio (percent) ² Machinery Response coverage ratio (percent) ² Cost of purchased communication services Response coverage ratio (percent) ²	7(1; 7	4.1 0.0 3.0 1.1 7.5 8.7	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1.1 52.1 3.4 55.0 4.2 52.3	(X) X) X) X) X) X) X) X) X) X) X)	(S) (S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)
New machinery and equipment expenditures	4	9.3 3.0 4.2 2.1 1.2	(X) 19 8 3 (X)	23.8 1.3 1.2 21.3 1.8		X) 2 2 1 X)	28.0 5.7 4.6 17.7 1.5	(X) 25 11 9 (X)
Cost of materials, components, parts, etc., used	1 01	7.8	(X) 16 1 (X)	734.0 26.5 707.5 1.8		X) 9 1 X)	661.8 (S) (S) (S)	(X) (S) (S) (X)

Wood partitions and

¹Data on new machinery and equipment expenditures by type are provided in table 3c.

¹For description of relative standard error of estimate, see Qualifications of the Data in appendixes.
²Measure of extent to which respondents reported each item. Derived for each item by calculating the ratio of weighted employment for those sample establishments that reported the specific inquiry to total employment for all establishments classified in industry. (See appendixes for explanation of sample weight.)
²Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response to the inquiry. (See appendixes for further explanation.)
²Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

Table 4. Industry Statistics by Employment Size of Establishment: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see int	roduct	ory text. F	or explanati	on of terms,	see appen	dixes]		1		1		
		All estab-	All em	ployees	Pro	duction wor	kers	Value added by manufac-	Cost of	Value of	New capital expend-	End-of- year inven-
Industry and employment size class	E١	lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	ture (million dollars)	materials (million dollars)	shipments (million dollars)	itures (million dollars)	tories (million dollars)
INDUSTRY 2521, WOOD OFFICE FURNITURE												
Total	E1	649	31.0	562.2	24.4	48.4	379.0	1 261.8	829.0	2 084.1	48.3	341.7
Establishments with an average of— 1 to 4 employees 5 to 9 employees	E9 E8	191 132	.4	6.5 13.6	.3	.6 1.3	4.2 9.1	13.6 28.0	10.1 18.3	23.8 46.3	.5 .8	3.8 7.0
10 to 19 employees 20 to 49 employees 50 to 99 employees	E4 E3	93 89 60	1.3 2.7 4.2	21.6 51.5 80.0	1.0 2.1 3.3	1.9 4.2 6.7	14.2 34.8 52.7	41.7 111.7 178.3	29.8 69.3 108.9	71.7 180.5 285.7	1.4 3.5 5.8	9.6 24.3 43.6
100 to 249 employees	=	53 24	8.1 8.3	145.5 141.8	6.5 6.6	12.8 13.1	102.4 95.6	355.5 318.9	205.7 252.6	559.9 568.0	9.7 13.2	95.9 96.3
500 to 999 employees	-	6 1 321	5.2 (D)	101.7 (D) 20.9	3.9 (D)	7.7 (D) 2.3	65.9 (D) 13.8	214.1 (D) 43.4	134.4 (D)	348.3 (D)	13.3 (D)	61.0 (D) 11.7
·	La	321	1.5	20.9	1.2	2.3	13.6	43.4	29.6	73.2	1.4	11.7
INDUSTRY 2522, OFFICE FURNITURE, EXCEPT WOOD												
Total	-	337	49.7	1 227.4	35.8	6 9 .6	776.4	3 479.4	1 987.9	5 453.6	234.1	645.7
Establishments with an average of — 1 to 4 employees 5 to 9 employees	E2 E6	42 33	.1 .2	1.5 4.2	.1 .2	.1	1.0 2.5	9.7 10.4	7.2 6,2	16.9 16.6	.2 .7	1.1 2.0
10 to 19 employees 20 to 49 employees 50 to 99 employees	E5 E3	56 59 41	.8 2.0 2.9	13.8 34.4 55.1	.2 .5 1.5 2.3	1.1 2.9 4.5	8.5 21.8 37.8	32.7 81.3 167.7	21.4 69.8 112.6	53.9 151.5 276.3	2.1 4.7 4.6	5.8 22.7 41.2
100 to 249 employees 250 to 499 employees	_	56 33	9.2 11.6	181.2 234.9	6.8 8.7	13.6 17.5	112.8 159.3	598.2 739.8	360.6 428.5	957.0 1 161.5	34.0 22.4	133.7 126.3
500 to 999 employees	-	11 5 1	7.3 15.8 (D)	183.8 <u>518.4</u> (D)	4.9 10.9 (D)	9.8 19.9 (D)	109.7 323.0 (D)	585.5 1 254.1 (D)	333.9 647.7 (D)	924.1 1 895.7 (D)	25.0 140.4 (D)	131.7 181.2 (D)
Covered by administrative records ²	E9	93	.9	13.1	.6	1.2	8.2	34.1	19.5	53.6	2.2	6.1
INDUSTRY 2531, PUBLIC BUILDING AND RELATED FURNITURE												
Total	E1	491	21.8	39 6.8	16.6	33.0	259.1	901.1	1 191.3	2 088.3	45.0	222.9
Establishments with an average of— 1 to 4 employees		113	.2	3.9	.2 .5	.4	2.5	8.3	7.4	15.7	.3	1.9
5 to 9 employees 10 to 19 employees 20 to 49 employees	E4 E2	90 79 99	.6 1.1 3.1	10.6 16.3 51.3	.8 2.4	.9 1.6 4.7	6.9 10.7 33.5	20.2 33.3 107.3	19.1 30.0 117.5	39.4 63.2 224.7	.9 .9 1 <u>1</u> .6	4.6 8.8 25.3
50 to 99 employees 100 to 249 employees 250 to 499 employees	E1 -	54 41 12	3.6 6.3 <u>6.9</u>	61.3 123.7 129.9	2.8 4.8 5.1	5.5 9.5 10.2	40.4 82.3 82.9	122.0 326.1 283.9	153.9 470.5 392.8	274.3 795.5 675.5	7.0 9.6 14.6	37.7 63.6 80.9
500 to 999 employees 1,000 to 2,499 employees	- 1	2 1	(D) (D)	(D) (D)	5.1 (D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)
Covered by administrative records ²	E9	229	1.4	18.8	1.1	2.1	12.5	39.5	35.3	74.8	1.2	8.8
INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES												
Total	E2	1 866	40.5	861.0	30.3	60.9	566.6	1 608.9	1 211.6	2 814.9	65.7	347.5
Establishments with an average of— 1 to 4 employees		565	1.2	20.4	.9	1.8	14.3	40.3	31.0	71.2	2.1	7.1
5 to 9 employees 10 to 19 employees 20 to 49 employees	E2 E1	363 381 363	2.5 5.2 11.1	43.6 99.6 247.5	1.9 3.9 8.2	3.7 7.8 16.5	30.3 65.3 159.6	86.2 185.7 451.8	63.4 137.7 322.2	149.6 322.7 773.0	3.8 7.2 17.9	13.8 28.7 73.6
50 to 99 employees 100 to 249 employees 250 to 499 employees	E2 E1	122 62 10	8.0 9.2 3.5	184.1 184.5 81.1	6.0 6.7 2.7	12.4 13.2 5.4	118.7 122.2 56.2	337.9 348.5 158.4	246.7 315.3 95.4	580.4 662.0 256.0	15.3 15.3 4.2	78.5 99.0 46.6
Covered by administrative records ²	E9	684	2.3	33.6	1.8	3.5	23.5	63.7	49.8	113.5	3.1	11.7
INDUSTRY 2542, PARTITIONS AND FIXTURES, EXCEPT WOOD												
Total	E1	592	33.5	691 .0	24.6	49.2	430.8	1 502.6	1 237.9	2 721.3	59.2	449.9
Establishments with an average of— 1 to 4 employees		97	.2	3.2	.1	.3	1.9	8.2	6.9	15.1	.2	1.9
5 to 9 employees 10 to 19 employees 20 to 49 employees	E3	95 101 118	.7 1.5 3.7	12.2 26.5 70.2	.5 1.1 2.8	.9 2.0 5.4	7.2 16.0 44.3	31.1 53.9 142.4	24.3 46.0 109.4	55.4 99.4 252.4	1.1 1.4 5.4	7.7 12.6 36.3
50 to 99 employees 100 to 249 employees 250 to 499 employees	E1 -	88 69 18	6.1 10. 9 6.7	124.1 227.6 143.4	4.5 7.8 5.0	9.0 15.8 10.4	74.8 137.4 99.6	268.4 493.6 286.4	209.5 438.9 258.5	470.7 924.7 542.5	9.5 19.4 15.5	84.6 162.3 92.4
500 to 999 employees	-	6 225	3.9	83.8	2.7	5.4	49.7 15.4	218.7	144.3	361.2	6.6	52.2 13.1
STORES BY AUTHINSTIAGE TECOTUS-111111111111111111111111111111111111		223	1.7	20.0	1.2	2.41	10.4	04.41	43.0 1	100.01	1.7	10.1

Table 4. Industry Statistics by Employment Size of Establishment: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			All em	ployees	Pro	duction wo	rkers	Value			New	End-of-
Industry and employment size class	E¹	All estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES												
Total	E1	489	20.6	342.2	15.9	31.2	223.5	898.8	887.0	1 780.4	27.3	338.7
Establishments with an average of— 1 to 4 employees	E8 E6 E3 E3 E2 -	172 89 86 63 34 23 12 8	.4 .6 1.2 2.0 2.4 3.1 3.6 7.4 (D)	5.9 9.3 19.9 30.7 36.2 49.2 57.9 133.2 (D)	.3 .4 .9 1.5 1.8 2.5 3.0 <u>5.6</u>	.5 .8 1.6 2.7 3.5 4.9 6.1 11.0	3.8 6.0 11.3 18.1 22.5 32.5 44.6 84.7 (D)	16.9 23.5 44.6 68.6 74.7 136.1 175.7 358.7 (D)	17.4 26.1 41.2 75.1 77.3 164.1 128.8 357.1 (D)	34.3 49.8 85.3 143.4 152.8 293.8 308.9 712.0 (D)	.2 .2 .5 2.2 1.8 3.4 6.2 12.8 (D)	6.0 7.4 12.8 25.0 27.2 63.1 50.2 147.1 (D)
INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.	E9	225	.9	11.7	.7	1.3	7.8	31.3	34.0	65.3	.3	11.1
Total	E2	1 597	29.3	549.7	21.6	41.9	33 2 .3	1 171.4	791.1	1 959.7	38.3	266.7
Establishments with an average of— 1 to 4 employees	E8 E7 E4 E3 E3 E1	758 265 222 202 93 51 4 1	1.2 1.8 3.0 6.3 6.4 7.1 3.4 (D)	19.0 28.3 49.5 111.0 123.4 134.4 84.1 (D) (D)	.8 1.3 2.3 4.9 4.7 5.3 2.3 (D) (D)	1.6 2.5 4.3 9.2 9.2 10.4 4.8 (D) (D)	11.6 17.9 31.6 72.4 76.5 81.8 40.5 (D)	43.5 64.4 104.7 220.4 254.4 245.5 238.5 (D)	27.8 38.2 67.2 149.8 177.8 214.6 115.8 (D)	71.3 100.4 171.9 369.5 430.3 462.7 353.6 (D)	1.5 2.0 3.2 7.5 8.3 7.9 8.0 (D)	10.2 15.9 21.8 50.5 62.0 66.6 39.6 (D)
Covered by administrative records ²	E9	752	2,5	29.4	1.8	3.2	17.9	68.6	43.9	112.5	2.4	16.1

Note: For qualifications of data, see footnotes on table 1a. Data shown as a (D) are included in underscored figures above.

Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies ¹Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

¹Report forms were not mailed to small single unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1987 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective employment-size classes shown.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1987

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

								T			
Indus- try or		All	All em	ployees	Pr	oduction work	ers	Value added by			New capital
prod- uct class code	Industry or primary product class	estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)
2521	Wood office furniture: All establishments in industry	649	31.0	562.2	24.4	48.4	379.0	1 261.8	829.0	2 084.1	48.3
2522	Office furniture, except wood: All establishments in industry	337	49.7	1 227.4	35.8	69.6	776.4	3 479.4	1 987.9	5 453.6	234.1
25221 25225 25226 25227	Establishments with this product class primary: Office seating, including upholstered, except wood Office desks and extensions, except wood Office storage units, files, and tables, except wood Office furniture, n.e.c.	50 21 70 54	6.7 2.4 14.0 23.3	130.7 47.4 281.3 708.5	5.1 1.9 10.4 16.1	10.3 3.8 20.3 30.6	83.9 38.2 181.6 436.0	351.9 160.7 744.5 2 081.9	297.1 75.6 450.2 1 072.4	647.6 236.3 1 192.0 3 146.6	11.4 3.5 42.5 168.2
2531	Public building and related furniture: All establishments in industry	491	21.8	396.8	16.6	33.0	259.1	901.1	1 191.3	2 088.3	45.0
25311 25312	Establishments with this product class primary: School furniture, except stone and concrete Public building and related furniture, except school	45	5.1	94.8	3.8	7.5	57.1	199.0	176.4	371.6	8.7
	furniture	146	13.0	243.9	9.9	19.8	163.4	585.4	912.0	1 497.3	32.4
2541	Wood partitions and fixtures: All establishments in industry	1 866	40.5	861.0	30.3	60.9	566.6	1 608.9	1 211.6	2 814.9	65.7
25411 25412 25413	Establishments with this product class primary: Wood partitions, shelving, and lockers Plastics laminated fixture tops Wood fixtures for stores, banks, and offices, and	39 225	1.6 5.7	33.2 109.6	1.2 4.2	2.4 8.4	21.1 68.1	67.3 205.0	58.0 215.8	122.3 420.4	2.5 13.2
23413	other miscellaneous fixtures	542	21.7	483.5	16.0	32.7	316.7	898.7	609.1	1 504.1	31.4

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1987—

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Indus- try or		All	All em	ployees	Pr	oduction work	kers	Value			New
prod- uct class code	Industry or primary product class	estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)
2542	Partitions and fixtures, except wood: All establishments in industry	592	33.5	691.0	24.6	49.2	430.8	1 502.6	1 237.9	2 721.3	59.2
25421 25422 25423 25424	Establishments with this product class primary; Metal partitions, prefabricated (assembled or knocked-down) Metal shelving and lockers Metal storage racks and accessories Metal fixtures for stores, banks, and offices, and	25 45 66	2.5 7.8 4.5	50.6 172.7 90.3	1.8 5.5 3.4	3.6 11.5 6.6	29.7 106.7 60.5	106.3 414.9 212.6	75.8 329.0 204.3	180.7 737.5 413.2	2.6 15.4 9.0
25425	miscellaneous fixtures Nonwood and nonmetal partitions and fixtures	131 6	13.2 .5	278.4 8.5	9.8 .4	19.6 .8	171.6 5.6	569.1 17.1	463.7 12.5	1 025.8 29.3	26.3 .4
2591	Drapery hardware and blinds and shades: All establishments in industry	489	20.6	342.2	15.9	31.2	223.5	898.8	887.0	1 780.4	27.3
25913 25914 25915	Establishments with this product class primary: Window shades and accessories Venetian blinds Other shades and blinds, n.e.c., and curtain and drapery rods, poles, and other hardware	37 104	1.7 12.3 3.2	26.4 198.3 64.2	1.3 9.6 2.3	2.6 18.9 4.5	17.4 131.5 39.5	62.3 495.6 202.4	96.3 445.3 200.5	155.2 949.0 392.0	1.5 19.0 5.1
2599	Furniture and fixtures, n.e.c.: All establishments in industry	1 597	29.3	549.7	21.6	41.9	332.3	1 171.4	791.1	1 959.7	38.3
25991 25992 25994	Establishments with this product class primary: Hospital beds Restaurant, cafeteria, and bar furniture and fixtures All other furniture and fixtures, n.e.c.	10 175 87	(D) 10.1 4.4	(D) 216.3 73.8	(D) 7.5 3.5	(D) 15.3 6.8	(D) 135.1 48.9	(D) 439.1 140.1	(D) 322.1 105.4	(D) 765.1 244.5	(D) 11.6 4.5

Note: For qualifications of data, see footnotes on table 1a.

Table 5b. Industry-Product Analysis — Value of Shipments and Primary Product Shipments and Specialization and Coverage Ratios for the Industry: 1987 and Earlier Census Years

[An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column 1. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			Vali	ue of shipmer	nts		Value	of primary p	roduct ship	ments
Industry and product group code	Industry and census year	Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscel- laneous receipts (million dollars)	Primary product special- ization ratio col. B + col. B + C (percent)	Total made in all indus- tries (million dollars)	Made in this industry (million dollars)	Made in other indus- tries (million dollars)	Coverage ratio col. B÷ col. F (percent)
		А	В	С	D	E	F	G	Н	1
2521	Wood office furniture	2 084.1 1 087.4 612.0	1 833.9 951.2 506.6	141.1 89.6 91.6	109.0 46.6 13.8	93 91 85	2 016.5 1 132.1 562.2	1 833.9 951.2 506.6	182.6 180.9 55.6	91 84 90
2522	Office furniture, except wood	5 453.6 3 062.7 1 397.4	5 030.5 2 699.8 1 244.8	293.6 308.5 85.7	129.5 54.4 66.9	94 90 94	5 263.4 2 951.6 1 353.0	5 030.5 2 699.8 1 244.8	232.9 251.8 108.2	96 91 92
2531	Public building and related furniture	2 088.3 1 102.8 787.4	1 861.0 901.4 631.8	153.1 165.5 85.2	74.2 35.9 70.4	92 84 88	2 029.8 1 052.5 724.7	1 861.0 901.4 631.8	168.8 151.1 92.9	92 86 87
2541	Wood partitions and fixtures	2 814.9 1 766.7 1 105.8	2 507.5 1 534.1 945.0	167.1 137.1 80.7	140.3 95.5 80.1	94 92 92	2 777.1 1 676.8 1 070.8	2 507.5 1 534.1 945.0	269.6 142.7 125.8	90 91 88
2542	Partitions and fixtures, except wood1987 1982 1977	2 721.3 1 943.2 1 303.0	2 274.1 1 656.6 1 110.6	285.2 205.4 130.7	162.1 81.2 61.7	89 89 89	2 434.0 1 828.2 1 215.8	2 274.1 1 656.6 1 110.6	160.0 171.6 105.2	93 91 91
2591	Drapery hardware and blinds and shades1987 1982 1977	1 780.4 1 114.4 675.1	1 613.1 974.4 590.1	11.3 32.9 31.2	156.0 107.0 53.8	99 97 95	1 671.4 1 001.2 615.3	1 613.1 974.4 590.1	58.3 26.7 25.2	97 97 96
2599	Furniture and fixtures, n.e.c	1 959.7 1 275.7 705.2	1 698.3 1 045.4 560.9	121.3 113.7 84.2	140.0 116.6 60.1	93 90 87	1 878.1 1 271.3 687.4	1 698.3 1 045.4 560.9	179.8 225.9 126.5	90 82 82

Table 6a-1. Product and Product Classes—Value of Shipments by All Producers: 1987 and 1982

[Includes value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

classes ar	nd product codes between 1982 and 1987, see appendixes. For meaning of ab	breviations and sy	mbols, see 1987		ctory text.		1982		
1987 product	Product	cor	mber of mpanies with		Value of	coi	mber of mpanies with	Value of	
code		\$	ipments of 100,000 or more		product shipments ¹ (million dollars)	s	ipments of 100,000 or more	product shipments ¹ (million dollars)	
2521	WOOD OFFICE FURNITURE								
	Total		(NA)		2 016.5		(NA)	1 132.1	
25210 25210 00 25210 02	Wood office furniture: Wood office furniture (for additional detail, see table 6a-2) Wood office furniture, n.s.k., typically for establishments with less than 10 employees (see note)		370 (NA)		1 947.6 68.9		(NA)	1 099.5	
2522	OFFICE FURNITURE, EXCEPT WOOD		(17,7)		00.0		(1777)	52.5	
	Total		(NA)		5 263.4		(NA)	2 951.6	
25221 25221 00	Office seating, including upholstered, except wood: Office seating, including upholstered, except wood (for additional detail, see table 6a-2)		96		1 174.8		91	708.0	
25225 25225 00	Office desks and extensions, except wood: Office desks and extensions, except wood (for additional detail, see table 6a-2)		71		342.6		66	232.2	
25226 25226 00	Office storage units, files, and tables, except wood: Office storage units, files, and tables, except wood (for additional detail, see table 6a-2)		120		1 417.7		171	991.1	
25227 25227 00	Office panel and modular systems furniture and all other nonwood office furniture, n.e.c.: Office panel and modular systems furniture and all other nonwood office		0.1		0.4400		54	000.0	
25220	furniture, n.e.c. (for additional detail, see table 6a-2) Office furniture, except wood, n.s.k		81 (NA)		2 113.8 214.5		54 (NA)	969.8 50.6	
25220 00 25220 02	Office furniture, except wood, n.s.k., typically for establishments with 15 employees or more (see note) Office furniture, except wood, n.s.k., typically for establishments with less		(NA)		161.5		(NA)	30.7	
	than 15 employees (see note)		(NA) 1987	7	53.0		(NA) 1982	19.9	
		Number of Product shipm			shipments ¹ Number of			Product shipments ¹	
1987 product code	Product	companies with				companies with			
		shipments of \$100,000 or more	Qui	antity ²	Value (million dollars)	shipments of \$100,000 or more	Quantity ²	Value (million dollars)	
2531	PUBLIC BUILDING AND RELATED FURNITURE								
	Total	(NA)		(X)	2 029.8	(NA)	(X)	1 052.5	
25311 25311 31	School furniture, except stone and concrete	(NA)	1	(X) 593.8	277.2 53.3	(NA) 12	(X) 1 480.8	229.5 38.3	
25311 36 25311 37 25311 98	Single pupil units thousands	13 25	3	280.8 (S)	68.3 45.6	19 34	919.2 **413.9	24.3 45.0	
25311 00	desks, study carrels, chalkboards, etc.]	35 (NA)		(X) (X)	97.5 12.6	66 (NA)	(X) (X)	106.1 15.7	
25312 25312 13	Public building and related furniture, except school furniture	(NA)		(X)	1 540.9	(NA)	(X)	744.1	
25312 15	automobiles, trucks, buses, and van conversion seats Seats for aircraft Church pews:	47 16		(X)	980.8 145.0	60	(X)	309.0	
25312 33 25312 35 25312 39	Upholstered	26 15 22	**1	160.3 (S) (X)	36.3 6.6 17.4	- 40 24	1 657.2 (X)	39.7 8.7	
25312 43	Folding tables (including folding banquet tables): Metal	3	1.	1400.0	20.0	40	700.0	25.4	
25312 45 25312 47	Wood	6 2		*498.3	32.8	10	788.0	35.1	
25312 51 25312 55	Fixed1,000 Portable folding chairs, single or ganged	14 6		918.6 568.3	64.5	10 10	(S) 4 620.7	45.1 33.7	
25312 57 25312 59 25312 61 25312 71	Stacking chairs of the stacking chairs and of the stacking chairs of	16 13 13		712.6 243.3 (X)	26.3 24.4 28.4 76.1	10 17 18 18	4 620.7 (S) 1 508.1 (X)	20.7 41.1 63.9	
25312 77 25312 97 25312 00	study carrels, reading tables, etc.) Other public building furniture Public building and related furniture, except school, n.s.k.	18 25 (NA)		(X) (X) (X)	21.9 47.9 32.9	18 47 (NA)	(X) (X) (X)	25.7 101.3 20.2	
25310 25310 00	Public building and related furniture, n.s.k.	(NA)		(X)	211.8	(NA)	(X)	79.0	
25310 00	Public building and related furniture, n.s.k., typically for establishments with 10 employees or more (see note)Public building and related furniture, n.s.k., typically for	(NA)		(X)	140.3	(NA)	(X)	50.5	
	establishments with less than 10 employees (see note)	(NA)		(X)	71.5	(NA)	(X)	28.5	

Table 6a-1. Product and Product Classes—Value of Shipments by All Producers: 1987 and 1982—Con.

includes value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

		1987		1982	
198" product code	Product	Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million dollars)	Number of companies with shipments of \$100,000 or more	Value of product shipments' (million dollars)
2541	WOOD PARTITIONS AND FIXTURES				
	Total	(NA)	2 777.1	(NA)	1 676.8
25411 —	Wood partitions, shelving, and lockers	(NA)	183.7	(NA)	152.5
25411 11 25411 21	Partitions, prefabricated (assembled or knocked-down)Shelving	42 42	81.1 72.8	41 53	68.6 63.1
25411 31 25411 00	Wood partitions, shelving, and lockers, n.s.k.	9 (NA)	12.4 17.4	(NA)	9.0 11.8
25412 25412 00	Plastics laminated fixture tops: Plastics laminated fixture tops (including tops for drainboards, sinks, cabinets, tables, counters, and fixtures)	425	430.7	160	236.9
25413	Wood fixtures for stores, banks, and offices, and other miscellaneous fixtures	(NA)	1 420.1	(NA)	997.0
	Store fixtures, retail, except food stores: Custom:				
25413 32 25413 33	Walls and wall fixturesCenter floor tables and gondolas	105 90	159.8 123.1	98 89	121.5 95.3
25413 34	Other fixtures and displays	172	299.7	141	174.7
25413 35 25413 36	Walls and wall fixturesCenter floor tables and gondolas	40 28	58.5 42.7	18 14	19.4 17.0
25413 37 25413 38	Other fixtures and displaysStore fixtures for retail food stores, wood	41 84	51.3 111.1	36 49	64.8 89.0
25413 39 25413 41	Other show and display cases (including wall types) and tables, wood Cabinets (floor or wall types), wood	67 129	88.1 96.1	72 99 80	100.6 81.7
25413 61 25413 81 25413 97	Counters, except bank counters, wood	87 45	54.6 22.8	69	47.8 36.6
25413 97	Other, including window backs, telephone booths, miscellaneous display fixtures, cashier stands, clothing racks, etc	47	76.4	83	120.1
25415 00	fixtures, n.s.k.	(NA)	235.8	(NA)	28.4
	Mand and Sidner and Garages and L	(NA)	742.7	(NA)	290.3
	Wood partitions and fixtures, n.s.k., typically for establishments with 10	` '			
25410 25410 00 25410 02	Wood partitions and fixtures, n.s.k., typically for establishments with 10 employees or more (see note) Wood partitions and fixtures, n.s.k., typically for establishments with less than 10 employees (see note)	(NA) (NA)	631.1	(NA)	216.5 73.8
25410 00 25410 02 2542-	Wood partitions and fixtures, n.s.k., typically for establishments with 10 employees or more (see note) Wood partitions and fixtures, n.s.k., typically for establishments with less than 10 employees (see note) PARTITIONS AND FIXTURES, EXCEPT WOOD Total	(NA) (NA)	111.6 2 434.0	(NA)	73.8 1 828.2
25410 00 25410 02 2542 25421 25421 13	Wood partitions and fixtures, n.s.k., typically for establishments with 10 employees or more (see note) Wood partitions and fixtures, n.s.k., typically for establishments with less than 10 employees (see note) PARTITIONS AND FIXTURES, EXCEPT WOOD Total Metal partitions, prefabricated (assembled or knocked-down) Toilet partitions	(NA) (NA) (NA) (NA)	111.6 2 434.0 170.3 67.5	(NA) (NA) (NA)	73.8 1 828.2 218.0 69.3
25410 00 25410 02 2542 25421 25421 13 25421 17 25421 19	Wood partitions and fixtures, n.s.k., typically for establishments with 10 employees or more (see note) Wood partitions and fixtures, n.s.k., typically for establishments with less than 10 employees (see note) PARTITIONS AND FIXTURES, EXCEPT WOOD Total Metal partitions, prefabricated (assembled or knocked-down) Toilet partitions Movable (except freestanding) Other partitions (excluding accordion and folding-type doors)	(NA) (NA) (NA) (NA) 9 16	2 434.0 170.3 67.5 69.6 22.3	(NA) (NA) (NA) 15 20 32	73.8 1 828.2 218.0 69.3 32.9 87.7
25410 00 25410 02 2542 25421 25421 13 25421 17 25421 19 25421 00	Wood partitions and fixtures, n.s.k., typically for establishments with 10 employees or more (see note) Wood partitions and fixtures, n.s.k., typically for establishments with less than 10 employees (see note) PARTITIONS AND FIXTURES, EXCEPT WOOD Total Metal partitions, prefabricated (assembled or knocked-down) Toilet partitions Movable (except freestanding) Other partitions (excluding accordion and folding-type doors) Metal partitions, n.s.k.	(NA) (NA) (NA) (NA) 9 16 11 (NA)	2 434.0 170.3 67.5 69.6 22.3 10.8	(NA) (NA) (NA) 15 20 32 (NA)	73.8 1 828.2 218.0 69.3 32.9 87.7 28.0
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25410 00 25410 02 2542 25421 25421 13 25421 17 25421 19 25421 00 25422 25422 37 25422 41 25422 37 25422 41 25422 37 25422 41 25423 41 25423 43 25423 47 25424 463 25424 47 25424 63 25424 67 25424 63 25424 67 25424 63 25424 67 25424 63 25424 63 25424 67 25424 63 25424 67 25424 63 25424 67 25424 63 25424 63 25424 67 25424 63 25424 63	Wood partitions and fixtures, n.s.k., typically for establishments with 10 employees or more (see note) Wood partitions and fixtures, n.s.k., typically for establishments with less than 10 employees (see note) PARTITIONS AND FIXTURES, EXCEPT WOOD Total Metal partitions, prefabricated (assembled or knocked-down) Toilet partitions Movable (except freestanding) Other partitions (excluding accordion and folding-type doors) Metal partitions, n.s.k. Metal shelving and lockers Shelving: Commercial shelving (factories, stores, etc.) Bookstacks (library, office, and school) Other shelving, including office shelving for correspondence, computer tapes, microfilm, etc., including shelf files with or without doors Lockers Metal storage racks and accessories Drive-in/drive-thru and gravity conveyor pallet storage racks. Cantilever storage racks and accessories portue-in/drive-thru and gravity conveyor pallet storage racks. Stacker-racks (pallet support, beams perpendicular to the storage aisle) Other racks, including conventional pallet racks and accessories Metal storage facks and aframes Stacker-racks (pallet support, beams perpendicular to the storage aisle) Other show and display cases (including wall types) and tables, metal Manufacturers' standard Store fixtures for stores, banks, and offices, and miscellaneous fixtures cabinets (floor or wall types), metal Other show and display cases (including wall types) and tables, metal Cabinets (floor or wall types), metal Window backs, telephone booths, miscellaneous display fixtures, cashier stands, clothing racks, bank fixtures (including counters, except ormamental metal work, etc.) Metal fixtures for stores, banks and offices, and miscellaneous fixtures, n.s.k. Nonwood and nonmetal partitions and fixtures for stores, banks, and offices; and shelving, lockers, and racks (except household) (excluding offices; and shelving, lockers, and racks (except household) (excluding	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	2 434.0 170.3 67.5 69.6 22.3 10.8 527.6 288.5 45.5 73.0 110.5 10.1 425.7 34.8 28.5 48.4 28.2 254.6 31.2 961.4 235.8 233.1 123.2 57.1 173.1	(NA) (NA) (NA) (NA) 15 20 32 (NA) (NA) (NA) 59 11 21 21 (NA) (NA) (NA) (NA) 69 37 25 31 38 12 56 (NA)	73.8 1 828.2 218.0 69.3 32.9 87.7 28.0 469.4 310.7 16.5 53.5 53.2 5.5 342.9 63.6 29.8 40.8 29.1 174.0 5.4 636.3 142.6 166.2 56.8 45.8 67.2 20.3

Table 6a-1. Product and Product Classes-Value of Shipments by All Producers: 1987 and 1982-Con.

[Includes value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this Industry from one establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

		19	87	19	982
1987 product code	Product	Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million dollars)	Number of companies with shipments of \$100,000 or more	Value of product shipments ¹ (million oollars)
2591	DRAPERY HARDWARE AND BLINDS AND SHADES				
	Total	(NA)	1 671.4	(NA)	1 001.2
25913 — 25913 11	Window shades and accessories	(NA) 27	207.8 49.3	(NA) 28	181.0 108.4
25913 13 25913 15	Other window shades, including cloth, paper, etcWindow shade accessories and rollers sold separately	57 8	134.5 9.4	42 7	54.1 9.6
25913 00	Window shades and accessories, n.s.k.	(NA)	14.6	(NA)	9.0
25914 — 25914 52	Venetian blinds Complete venetian blinds, vertical and horizontal: Aluminum-slat blinds	(NA) 78	810.9 454.3	(NA) 68	406.5
25914 58 25914 71	Unassembled venetian blinds, including wood, plastics, steel, etc	60	215.8 126.1	50 10	84.8 70.7
25914 00	Venetian blinds, n.s.k.	(NA)	14.7	(NA)	5.7
25915 25915 11	Other shades and blinds, n.e.c., and curtain and drapery rods, poles, and other hardwareOther shades and blinds, except canvas and other textile fabrics,	(NA)	414.5	(NA)	301.8
25915 17	including wood, metal, plastics, chip, bamboo, rattan, reed, etc	30	85.1	34	51.2
25915 00	Other shades and blinds, n.e.c., n.s.k	26 (NA)	320.2 9.1	20 (NA)	239.9 10.7
25910 — 25910 00	Drapery hardware and window blinds and shades, n.s.k	(NA)	238.2	(NA)	111.9
25910 02	establishments with 10 employees or more (see note)	(NA)	183.3	(NA)	90.7
	establishments with less than 10 employees (see note)	(NA)	54.9	(NA)	21.2
2599	FURNITURE AND FIXTURES, N.E.C.				
	Total	(NA)	1 878.1	(NA)	1 271.3
25991 25991 00	Hospital beds: Hospital beds	(NA)	182.1	22	116.4
25992	Restaurant, cafeteria, and bar furniture and fixtures	(NA)	721.5	(NA)	553.1
25992 31 25992 33	Wood chairs and stools: Upholstered	31 18	109.3 28.7		85.9
25992 35 25992 37	Metal chairs and stools: Upholstered	20 5	65.0 6.3	- 22	72.8
25992 47 25992 48	Booths, bars, and back bars Other restaurant, cafeteria, bar, and bowling center furniture and fixtures, including food service counters, dish tables, tableware dispensers,	56	71.3	61	52.2
25992 00	tables, table tops and bases, tray stands, serving tables, bus carts, food trucks, etc. (excluding cooking, warming, refrigeration, etc., equipment) Restaurant, cafeteria, and bar furniture and fixtures, n.s.k	127 (NA)	365.7 75.2	144 (NA)	342.2 (⁴)
25994 25994 51 25994 97	All other furniture and fixtures, n.e.c	(NA) 26	279.6 65.4	(NA) 23	305.6 40.4
25994 00	furniture, amusement game cabinets, portable work benches, sorting cases and cabinets)	107 (NA)	214.2	³ 122 (NA)	³ 265.2 (⁴)
25990	Furniture and fixtures, n.e.c., n.s.k.	(NA)	694.8	(NA)	296.3
25990 00 25990 02	Furniture and fixtures, n.e.c., n.s.k., typically for establishments with 5 employees or more (see note) Furniture and fixtures, n.e.c., n.s.k., typically for establishments with less	(NA)	579.9	(NA)	4247.1
	than 5 employees (see note)	(NA)	114.9	(NA)	49.2

Note: In 1987 Census of Manufactures, data for establishments of small single unit companies with up to 20 employees were estimated from administrative-record data rather than data actually collected from respondents. Employment cutoffs used for administrative records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate product group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) followed by "00" or to appropriate group code (four-digit) four-digit) followed by "00" or to appropriate group code (four-digit) four-digit) four-di followed by "000".

Data reported by all producers, not just those with shipments of \$100,000 or more.

2For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

3For 1982, product code 25425 00 was included with product code 25994 97.

4For 1982, product codes 25992 00 and 25994 00 were included in product code 25990 00.

Table 6a-2. Related Products From Current Industrial Reports Series—Value of Shipments by All Producers: 1987 and 1982

(Accidental detail is provided in the Current Industrial Report series. For meaning of abbreviations and symbols, see introductory text)

1987	detail is provided in the Current Industrial Report series. For meaning of abb	1987 produc		1982 produc	ct shipments
product code	Product	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	MA25H, OFFICE FURNITURE				
25210 —	Wood office furniture	(X)	1 969.1	(X)	1 150.7
25210 09	Seating, including upholstered: Stacking chairsthousands_	79.9	11.5	51.8	4.7
25210 11 25210 13	Secretarial chairsdo_ General office and desk chairsdo_	. 280.1 }	39.4 208.8	200.1 512.6	25.0 104.6
25210 13	Side and arm chairsdo_	. 1 211.0	177.8	711.6	102.8
25210 19	Folding office seatingdo_	141.3	66.3	(D) 97.9	(D) 38.1
25210 21 25210 25	Lounge seatingdo_ Tandem seatingdo_	. 39.0	5.7	(D)	(D) 5.1
25210 29	All other office-type seatingdo_	57.4	7.2	43.3	5.1
25210 34 25210 36	Desks and extensions: Desksthousands_ Desk extensionsdo_	. 1 059.7 201.1	391.5 53.2	763.3 131.2	255.1 32.8
	Storage units, files, and tables: Storage units:				
25210 41	Credenzasthousands_	. 274.1	143.1	195.6	101.2
25210 43	Bookcases and other storage unitsdo_	. 472.8	79.1	246.8	40.6
25210 45	Vertical, letter and legalthousands_	. 69.4	16.8	(D)	(D)
25210 47 25210 48	Honzontal/lateral, letter and legaldo_ Motorized/visible/insulateddo_	. 108.9	36.2	42.5	14.0
25210 49	All other filesdo_		5.5	(D)	(D)
25210 55	Tables: Work/conferencethousands_	272.0	89.3	249.0	59.2
23210 33	Equipment supporting:			240.0	50.2
25210 54 25210 56	Adjustablethousands_ Nonadjustabledo_	12.5	2.0 24.7	50.8	5.3
25210 59	All otherdo_		53.3	238.8	22.7
	Panel and modular systems furniture: Panel systems:				
25210 61	Panels/screens, nonloadbearingthousands_	. 70.4	13.4	85.8	14.8
25210 62	Panel supported systems: Panels, ceiling heightthousands_		2.4	(D)	(D)
25210 62	Panels, less than ceiling heightdo_	873.5	130.4	317.4	(D) 53.4
25210.05	Work surfaces:	15.2	4.1	(D)	(D)
25210 65 25210 67	Free-standingthousands_ Panel attacheddo_	. 15.2 274.5	36.2	(D)	(D) (D)
25210 69	Filing, storage, and shelving componentsdo_	319.5	58.9	155.9	26.0
25210 73	Modular systems: Work surface modulesthousands_	120.0	26.9	40.2	20.3
25210 77	Space dividers/extension panelsdo_	. 55.3	14.2 32.5	\ (X)	8.0
25210 80 25210 93	Filing, storage, and shelving componentsdo_ Other wood office furniture	(X) (X)	44.1	(x)	21.5
25210 00	Wood office furniture n.s.k., typically for establishments	(X)	151.8	(X)	115.3
25210 02	with more than 10 employees	(^)			
	with less than 10 employees	(X)	42.8	(X)	32.6
2522- —	Nonwood office furniture	(X)	5 356.6	(X)	3000.6
25221	Seating, including upholstered	(X)	1 200.8	(X)	1737.3
25221 09 25221 19	Stacking chairsthousands_ Folding office seatingdo_	3 265.0	96.1 (²)	5 079 1	95.6
25221 11	Secretarial chairsdo_	. 1 470.2	145.2	1 067.7	114.8 289.4
25221 14 25221 15	General office and desk chairsdo_ Side and arm chairsdo_	. 1 850.2	634.8 202.2	1 675.7 1 691.6	162.5
25221 21	Lounge seatingdo_ Tandem seatingdo_	188.9	53.8	91.7	25.2
25221 27 25221 29	All other office-type seatingdo_	. 144.1 22 038.3	24.3 ² 44.4	114.2 283.2	19.3 18.5
25225 —	Desks and extensions	(X)	343.6	(X)	224.0
25225 34 25225 36	Desksdo_ Desk extensionsdo_		304.4 39.2	1 012.9 131.0	204.6 19.4
25226 —	Storage units, files, and tables		1 424.0	(X)	3982.3
25226 41	Credenzasthousands_	130.8	22.9	120.0	27.1
25226 43	Bookcases and other storage unitsdo	834.2	79.7	744.9	72.4
25226 45	Files: Vertical, letter and legalthousands_	5 173.7	396.3	3 501.5	309.9
25226 47	Horizontal/lateral, letter and legaldo_	. 2 216.3	462.3	1 871.4 188.0	261.3 62.0
25226 48 25226 49	Motorized/visible/insulateddo_ All other filesdo_	. 172.8 2 174.4	89.2 113.1	2 092.5	82.9
	Tables: Work/conferencethousands_)	97.2	741.0	74.8
25226 55	Equipment supporting:	1 020.6		741.0	74.0
25226 56 25226 58	Adjustablethousands_ Nonadjustabledo	765.2 387.0	65.6 31.4	438.5	36.7
25226 59	All otherdo_	351.2	66.3	371.7	35.2
25227 —	Panel and modular systems furniture and all other nonwood office furniture, n.e.c	(X)	42 235.5	(X)	51 004.9
	Panel systems:				
25227 61	Panel supported systems:	. 148.6	16.7	303.0	31.8
25227 62	Panels, ceiling heightthousands_	. 164.4	18.3	(D)	(D)
25227 63	Panels, less than ceiling heightdo_ Work surfaces:	. 7 688.7	948.2	3 712.9	487.1
25227 65	Free-standingthousands_	. 216.4	27.2	748.1	83.7
25227 67 25227 69	Panel attacheddo_ Filing, storage, and shelving componentsdo_	. 1 727.9 5 016.0	240.9 353.9	1 770.8	141.0
	Modular systems:				
25227 73 25227 77	Work surface modulesthousands_ Space dividers/extension panelsdo_	In I	126.0	(D) (D)	(D) (D)
25227 80	Filing, storage, and shelving componentsdo_	.	118.8	L (D)	32.2
25227 98	Other nonwood office furniture	(X) I	105.7	(X)	82.2

See footnotes at end of table.

Table 6a-2. Related Products From Current Industrial Reports Series—Value of Shipments by All Producers: 1987 and 1982—Con.

[Additional detail is provided in the Current Industrial Report series. For meaning of abbreviations and symbols, see introductory text]

1987		1987 produc	et shipments	1982 produ	ct shipments
product code	Product	Quantity	Value (million dollars)	Quantity	Value (million dollars)
	MA25H, OFFICE FURNITURE—Con.				
2522- — 25220 00 2522 0 02	Nonwood office furniture—Con. Nonwood office furniture n.s.k., typically for establishments with more than 15 employees	(X)	120.5	(X)	30.7
25220 02	establishments with less than 15 employees	(X)	32.2	(X)	19.9

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1987 and 1982

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1987. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

Product class and geographic area	1987 value oi	1982 value of	Product class and geographic area	1987 value of	1982 value of
	product shipments	product shipments		product shipments	product shipments
25221, OFFICE SEATING, INCLUDING UPHOLSTERED, EXCEPT WOOD			25311, SCHOOL FURNITURE, EXCEPT STONE AND CONCRETE		
United States	1 174.8	70 8.0	United States	277.2	229.5
California	103.1	97.0			
Florida	12.4	(NA)	California	29.8	10.3
Indiana	11.7 410.8	11.9 233.4	Illinois	10.7	15.0
Mississippi	33.4	(NA)	Michigan	17.4 16.5	14.2
1111001001001010101010101010101010101010		(,	Missouri	2.3	(NA
New York	9.9	3.3			
North Carolina	98.2	53.9	North Carolina	4.6	8.8
OhioPennsylvania	38.3 68.9	11.9 63.5	Pennsylvania	6.6	7.3
Texas	54.4	35.3	Texas	22.0	28.0
		33.3	Washington	10.5	9.9
25225, OFFICE DESKS AND EXTENSIONS,					
EXCEPT WOOD			25312, PUBLIC BUILDING AND RELATED FURNITURE, EXCEPT SCHOOL FURNITURE		
United States	342.6	232.2	Heiter d Otenhen	4 540.0	744
California		04.5	United States	1 540.9	744.
CaliforniaIndiana	44.4	34.5 (NA)			
New Jersey	18.7	(NA)	Alabama	27.8	5.0
New York	15.6	10.4	Arkansas	20.2	39.7
Pennsylvania	30.4	19.5	California	138.9	53.8
Texas	12.9	4.7	Georgia	4.1 32.2	(NA)
Washington	2.6	(NA)		02.2	50.2
25226 OFFICE STORAGE HAUTS FILES AND			Indiana	97.4	34.8
25226, OFFICE STORAGE UNITS, FILES, AND TABLES, EXCEPT WOOD			lowa	43.5	37.4
TABLES, EXCEPT WOOD			Kansas	3.3 440.5	2.4 87.9
United States	1 417.7	991.1	New York	9.0	19.1
0-84	.== -				
California	177.2	139.1	Ohio	38.4	41.3
Illinois	6.9	7.3 51.3	Pennsylvania	22.0	14.4
Michigan	302.6	164.9	Tennessee	102.0	24.2 55.7
Missouri	8.7	4.7	Texas	46.3 3.5	3.3
			Wisconsin	45.3	45.1
New Jersey	41.8	28.2			
New York	64.1	83.4			
North Carolina	8.3	6.3	25411, WOOD PARTITIONS, SHELVING, AND		
Pennsylvania Tennessee	115.3 63.5	91.4 (NA)	LOCKERS		
Texas	33.6	(NA)			
Wisconsin	63.0	33.8	United States	183.7	152.5
			0.11		
25227, OFFICE FURNITURE, N.E.C.			California	9.5 5.4	25.8 (NA
United States	2 113.8	969.8	Illinois	27.5	14.9
	2 113.0	303.0	Massachusetts	5.9	2.0
California	219.4	94.1	Michigan	6.1	4.4
Florida	2.7	(NA)			
Michigan	1 211.0	642.5	Missouri	11.3	(NA
New York	24.4	2.1	New York	11.4	3.€
Ohio	56.3	(NA)	Pennsylvania	24.9	3.3
Texas	2.3	(NA)	Texas	4.5 5.2	5.6 (NA)
Wisconsin	16.5	l (NA)	Wisconsin	5.2	i (NA)

Includes \$12.0 million in seating, not specified by kind.

2Data for "folding office seating" are combined with "all other office-type seating" to avoid disclosing data for individual companies.

3Includes \$7.6 million in storage units, \$9.9 million in files, and \$2.5 million in tables, all of which are not specified by kind.

4Includes \$279.8 million of unclassified modular systems accessories.

5Includes \$7.7 million in panel systems, not specified by kind.

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1987 and 1982—Con.

[Milhon dollars. Product classes covered are those that are aconomically significant and whosa production is geographically dispersad, provided dispersion is not approximated by data in tabla 2.
Also, product classes are not shown if they are miscellaneous or "not specified by type" classas. Statistics for soma Statas are withhald because they are aither lass than \$2 million in product class shipments or they disclose data for individual companies in 1987. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appandixas]

between 1982 and 1987 and explanation of terms, see a					
Product class and geographic area	1987 value of product shipmants	1982 value of product shipmants	Product class and geographic area	1987 valua of product shipmants	1982 value of product shipments
25412, PLASTICS LAMINATED FIXTURE TOPS			25423, METAL STORAGE RACKS AND ACCESSORIES		
United States	430.7	236.9	Unitad States	425.7	3 42. 9
Arizona	6.4	2.8			
California	43.8	29.7	California Connecticut	48.1 2.4	44.7 (NA)
Colorado	6.4	3.1 6.5	Georgia	14.5	7.7
Flonda	10.6	5.7	Illinois	100.9	63.2
			Michigan	51.8	25.0
Illinois	16.1	11.2 21.7	Now York		(NIA)
IndianaKentucky	48.1	(NA)	New York	8.8 22.7	(NA) 18.8
Maryland	5.9	3.2	Pennsylvania	54.0	44.3
Massachusetts	8.3	2.6	Wisconsin	4.5	(NA)
Michigan	7.4	8.1			
Minnesota	10.5	(NA)	25424, METAL FIXTURES FOR STORES,		
MissouriNew Jersey	9.5 6.7	3.0	25424, METAL FIXTURES FOR STORES, BANKS, AND OFFICES, AND		
New York	23.0	11.3	MISCELLANEOUS FIXTURES		
			United States	961.4	636.3
North Carolina	15.4	8.4	Officed States	901.4	030.3
Dhio Dregon	24.8 3.1	6.6	Alabama	640	/NIA \
Pennsylvania	25.8	10.7	California	64.9 97.7	(NA) 68.6
Tennessee	17.3	(NA)	Connecticut	3.2	(NA)
Taa	100	100	Georgia	43.8	24.0
Texas	18.2 7.4	16.2 (NA)	Illinois	128.5	83.3
Vashington	4.4	3.6	Indiana	40.0	20.0
Wisconsin	28.0	11.5	Indiana Michigan	40.9 43.4	30.3 26.2
			Missouri	33.9	22.2
25413, WOOD FIXTURES FOR STORES,			New York	44.2 62.5	25.1 72.2
BANKS, AND OFFICES, AND OTHER			New York	62.5	12.2
MISCELLANEOUS FIXTURES			North Carolina	7.6	9.9
United States	1 420.1	997.0	Ohio	38.4	26.5
Omica 010100		001.0	Pennsylvania	88.3	60.5
Alabama	12.8	30.0	TexasWisconsin	38.6	23.4 (NA)
Arizona	10.8	5.8	Wisconsin	0.0	(147.)
Arkansas California	17.2 169.8	9.1 133.7			
Colorado	9.0	9.8	25425, NONWOOD AND NONMETAL PARTITIONS AND FIXTURES		
S	1.0	(814)	PARTITIONS AND FIXTURES		
ConnecticutFlorida	14.2 34.8	(NA) 19.5	United States	31.8	(NA)
Georgia	24.0	16.8			
llinois	121.4	107.9			
ndiana	12.1	7.6	DED12 WINDOW CHADEC AND		
Kentucky	7.7	7.8	25913, WINDOW SHADES AND ACCESSORIES		
Maine	4.2	(NA)			
MarylandMassachusetts	9.5 30.2	7.4 12.5	United States	207.8	181.0
Michigan	49.5	46.2			
			California	29.7 20.9	11.4 5.6
Minnesota	66.3	25.7	Illinois	22.9	(NA)
Missouri Nevada	25.4 7.2	9.6 2.2	Indiana	17.7	11.2
New Jersey	77.9	20.2	New York	13.4	20.7
New York	152.7	122.0	Taxas	3.3	(NA) 4.0
North Carolina	90.7	45.0			
Ohio	70.0	65.0	OSOAA MENETIAN DUNDO		
Oregon	8.8	2.9	25914, VENETIAN BLINDS		
Pennsylvania Rhode Island	78.3 17.2	58.2 (NA)	United States	810.9	406.5
111/0/2 10/0/19	17.2	(1477)			
[ennessee	13.1	7.4	California	188.4	89.1
[exas	64.7	44.9	Florida	45.5 45.9	14.1 3.2
Jtah/irginia	19.5 22.6	16.1	Maryland	3.3	(NA)
Washington	30.3	17.0	Massachusetts	7.8	(NA)
Wisconsin	34.1	20.5			
			New York	10.2	10.2 (NA)
25421, METAL PARTITIONS,			Tannassaa	4.3	(NA)
PREFABRICATED (ASSEMBLED OR			Texas	54.4	40.8
KNOCKED-DOWN)			Washington	11.7	(NA)
United States	170.3	218.0			
			25915, OTHER SHADES AND BLINDS, N.E.C.,		
New York	58.5	72.4	AND CURTAIN AND DRAPERY RODS,		
Pennsylvania	7.4	13.2	POLES, AND OTHER HARDWARE		
			United States	414.5	301.8
25422, METAL SHELVING AND LOCKERS					
United States	527.6	469.4	California	35.2	22.0
			Florida	6.1	4.1
		20.3	Georgia	3.4	(NA) (NA)
California	18.5		Penneylyania	10.8	
CaliforniaGeorgia	22.7	(NA)	Pennsylvania	19.8	(IVA)
California	22.7 125.4 34.2	(NA) 102.7 19.9	ŕ	19.8	(IVA)
California	22.7 125.4	(NA) 102.7	Pennsylvania	19.8	(IVA)

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1987 and 1982—Con.

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1987. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

		Product class and geographic area	1987 value of product shipments	1982 value of product shipments
		25992, RESTAURANT, CAFETERIA, AND BAR FURNITURE AND FIXTURES—Con.		
721.5	(NA)	TexasUtahUwashington	5.9 3.0 4.5	(NA) (NA) (NA)
5.6 5.1	(NA) (NA)	Wisconsin	29.4	(NA)
3.8 31.4	(NA) (NA)	FIXTURES, N.E.C.	070.0	
22.4	(NA)	California	31.4	(NA) (NA)
3.9 16.1	(NA) (NA)	Illinois	18.2 37.6 11.6	(NA) (NA) (NA)
	` '	Massachusetts	3.4 25.1	(NA) (NA)
11.2	(NA) (NA)	Mississippi	4.2 18.5 13.6	(NA) (NA) (NA)
65.4	(NA)	New York	2.9	(NA) (NA)
40.6 28.6	(NA) (NA)	Pennsylvania	11.3 15.6 15.6	(NA) (NA) (NA)
	721.5 5.6 5.1 103.4 3.8 31.4 22.4 41.1 3.9 16.1 43.1 25.9 11.2 30.0 12.6 65.4	721.5 (NA) 5.6 (NA) 103.4 (NA) 3.8 (NA) 31.4 (NA) 3.9 (NA) 16.1 (NA) 43.1 (NA) 25.9 (NA) 11.2 (NA) 30.0 (NA) 12.6 (NA) 40.6 (NA) 40.6 (NA)	Product shipments	Product shipments

Table 6c. Historical Statistics for Product Classes—Value Shipped by All Producers: 1987 and Earlier Years

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

1987 product	Product class								
code	Froduct class	1987	19861	19851	19841	19831	1982	197 7	1972
2521- 25210	Wood office furniture	2 016.5 2 016.5	1 662.2 1 662.2	1 623.5 1 623.5	1 545.0 1 545.0	1 231.1 1 231.1	1 132.1 1 132.1	56 2.2 562.2	259.1 259.1
2522- 25221 25225 25226 25227 25220	Office furniture, except wood Office seating, including upholstered, except wood Office desks and extensions, except wood Office storage units, files, and tables, except wood Office furniture, n.e.c. Office furniture, except wood, n.s.k.	5 263.4 1 174.8 342.6 1 417.7 2 113.8 214.5	4 626.7 1 115.1 329.5 1 292.7 1 804.2 85.3	4 422.9 1 099.3 334.4 1 242.2 1 676.6 70.4	3 977.6 930.8 320.4 1 191.2 1 458.1 77.1	3 213.4 766.6 249.2 1 001.1 1 129.7 66.7	2 951.6 708.0 232.2 991.1 969.8 50.6	1 3 53.0 388.1 230.7 (NA) 700.7 33.5	789.1 192.8 153.7 (NA) 405.7 36.9
2531- 25311 25312 25310	Public building and related furniture School furniture, except stone and concrete Public building and related furniture, except school furniture Public building and related furniture, n.s.k.	2 029.8 277.2 1 540.9 211.8	1 448.7 324.6 1 011.9 112.2	1 262.6 278.5 880.4 103.7	1 162.0 246.9 803.3 111.8	1 091.7 257.0 762.5 72.2	1 052.5 229.5 744.1 79.0	724.7 185.4 479.5 59.8	485.2 181.2 268.4 35.6
2541- 25411 25412 25413	Wood partitions and fixtures	2 777.1 183.7 430.7	2 093.6 276.2 368.1	2 111.9 268.4 353.3	2 093.4 259.5 322.7	1 808.1 176.9 290.7	1 676.8 152.5 236.9	1 070.8 135.6 204.2	772.1 77.0 141.8
25410	miscellaneous fixtures	1 420.1 742.7	1 099.8 349.4	1 155.8 334.4	1 152.7 358.5	1 080.3 260.2	997.0 290.3	561.1 169.9	354.0 199.3
2542- 25421 25422 25423 25424	Partitions and fixtures, except wood Metal partitions, prefabricated (assembled or knocked-down) Metal shelving and lockers Metal storage racks and accessories Metal fixtures for stores, banks, and offices, and miscellaneous	2 434.0 170.3 527.6 425.7	2 411.5 266.9 599.9 463.3	2 388.2 261.7 556.6 487.1	2 230.5 238.6 524.4 397.9	1 892.3 232.5 446.4 350.9	1 828.2 218.0 469.4 342.9	1 215.8 96.7 349.4 275.6	713.2 79.4 236.2 95.2
25425 25420	fixtures	961.4 ² 31.8 31 7 .3	866.4 (NA) 215.0	865.2 (NA) 21 7 .6	827.3 (NA) 242.3	6 9 2.1 (NA) 170.3	636.3 (NA) 161.6	391.0 (NA) 103.1	217.3 (NA) 85.1
2591- 25913 25914 25915	Drapery hardware and blinds and shades	1 6 71.4 207.8 810.9	1 388.0 264.4 612.9	1 326.4 247.2 581.9	1 232.9 211.9 541.1	1 187.8 215.6 516.0	1 001.2 181.0 406.5	61 5. 3 140.3 99.0	311.3 80.9 29.1
25910	poles, and other hardware	414.5 238.2	402.5 108.1	413.7 83.5	408.1 71.8	353.5 102. 7	301.8 111.9	320.3 55.7	160.4 40.9
2599- 25991	Furniture and fixtures, n.e.c. Hospital beds	1 878.1 182.1	1 719.9	1 695.8	1 577.1	1 428.8	1 271.3	687.4	379.9
25992 25994 25990	Restaurant, cafeteria, and bar furniture and fixtures	721.5 279.6 694.8	1 719.9	1 695.8	1 577.1	1 428.8	1 271.3	687.4	379.9

¹Figures are estimates derived from a representative sample of manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures publications for this period.

Table 7. Materials Consumed by Kind: 1987 and 1982

Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introduction text.

1987 material code	Material	1987 delivered cost (million dollars)	1982 delivered cost (million dollars)
	INDUSTRY 2521, WOOD OFFICE FURNITURE		
	Materials, parts, and supplies	710.0	373.0
242111	Hardwood lumber, rough and dressed	82.5	47.9
242123 243540	Softwood lumber, rough and dressed	4.1 51.8	2.7 20.9
243510 243601	Hardwood plywoodSoftwood plywood	32.2 16.8	25.7 3.4
249310	Particleboard (wood)	48.8	19.2
249330 249340	Medium density fiberboard (MDF) Hardboard (wood fiberboard)	3.4 7.2	1.3 1.8
265001 265101	Paperboard containers, boxes, and corrugated paperboard Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products	24.1 18.3	10.9 9.5
308301 229508	Plastics laminated sheetsCoated or laminated fabrics for upholstery, including vinyl coated	18.0 33.2	10.1 15.6
	Mill shapes and forms, except castings: Carbon steel, including wrought iron:		
331012 331085	Sheet and strip	(D) 6.2	(D 1.9
331020	Alloy steel mill shapes and forms, except stainless	6.9	3.4
331031 335001	Stainless steel mill shapes and forms	(D) 3.3	1.2 (D)
342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc.	52.6	39.2
308971 970099	Plastics furniture parts and components All other materials and components, parts, containers, and supplies	10.2 104.8	1.8 68.5
971000	Materials, parts, containers, and supplies, n.s.k.1	172.2	86.3
	INDUSTRY 2522, OFFICE FURNITURE, EXCEPT WOOD		
	Materials, parts, and supplies	1 799.8	1 153.9
242111	Hardwood lumber, rough and dressed	17.0	12.3
242123 243540	Softwood lumber, rough and dressed	9.0	1.7 16.0
243510 243601	Hardwood plywood Softwood plywood	7.1 7.7	3.4
249310	Particleboard (wood)	34.7	17.8
249340 265001	Hardboard (wood fiberboard)	6.8 90.9	5.3 42.2
285101 308301	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products Plastics laminated sheets	59.8 41.5	42.6 22.5 75.4
229508	Coated or laminated fabrics for upholstery, including vinyl coated	182.2	75.4
331012	Mill shapes and forms, except castings: Carbon steel including wrought iron:	368.8	271.4
331085	Sheet and strip All other carbon steel mill shapes and forms, including tubing All other carbon steel mill shapes and forms, including tubing	68.4	39.3
331020 331031	Alloy steel mill shapes and forms, except stainlessStainless steel mill shapes and forms	11.7 4.3	2.6 4.4
335001 342901	Aluminum and aluminum-base alloy mill shapes and forms Furniture and builders' hardware, including cabinet hardware, casters,	48.2	24.3
308971	glides, handles, hinges, locks, etc. Plastics furniture parts and components	94.4 98.3	66.1 33.8
970099 971000	All other materials and components, parts, containers, and supplies Materials, parts, containers, and supplies, n.s.k.1	428.0 199.9	348.1 122.7
	INDUSTRY 2531, PUBLIC BUILDING AND RELATED		
	FURNITURE		400.0
0.404.1	Materials, parts, and supplies	1 102.4	469.2
242111 242123	Hardwood lumber, rough and dressedSoftwood lumber, rough and dressed	30.4 4.4	25.6 1.4
243540 243510	Hardwood veneer	4.7 8.8	3.5 10.6
243601 249310	Softwood plywood	3.4 14.4	3.0 14.7
249330 249340	Medium density fiberboard (MDF)	1.6	1.1
265001	Hardboard (wood fiberboard)	3.1 11.4	.9 10.5
285101 308301 229508	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products	11.2 14.7	7.6 14.4 23.7
223300	Coated or laminated fabrics for upholstery, including vinyl coated Mill shapes and forms, except castings:	310.7	23.7
331012	Carbon steel, including wrought iron: Sheet and strip	52.8	48,1
331085	All other carbon steel mill shapes and forms, including tubing	106.9	16.1 1.1
331031 335001	Alloy steel mill shapes and forms, except stainless	23.9 37.9	6.6 25.4
342901	Furniture and builders' hardware, including cabinet hardware, casters.		23.4
308971	glides, handles, hinges, locks, etc	62.8 50.2	24.9
970099	All other materials and components, parts, containers and supplies Materials, parts, containers, and supplies, n.s.k.1	204.1 145.0	7146.9 60.1

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material		1987 delivered cost (million dollars)		1982 delivered cost (million dollars)
	INDUSTRY 2541, WOOD PARTITIONS AND FIXTURES				
	Materials, parts, containers, and supplies		1 044.8		634.7
242111 242123	Hardwood lumber, rough and dressedSoftwood lumber, rough and dressed		43.0 14.2		24.1 13.5
243540 243510	Hardwood veneer		8.8 22.9		5.6 11.8
243601 249310	Softwood plywood Particleboard (wood)		13.4 81.8		17.4 57.1
249330 249340	Medium density fiberboard (MDF)Hardboard (wood fiberboard)		21.6 11.6		8.4 10.8
265001 285101	Paperboard containers, boxes, and corrugated paperboard Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products		16.3 16.3		8.9 11.5
308301 229508	Plastics laminated sheets Coated or laminated fabrics for upholstery, including vinyl coated		100.9 5.1		51.1 3.7
	Mill shapes and forms, except castings: Carbon steel, including wrought iron:				
331012 331085	Sheet and stripAll other carbon steel mill shapes and forms, including tubing		6.9 1.9		22.1 7.7
331020 331031	Alloy steel mill shapes and forms, except stainless	•	16.9 2.7 6.2		6.0 2.8 4.6
335001 342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc.		31.9		33.8
308971 970099	Plastics furniture parts and components All other materials and components, parts, containers, and supplies		17.0 147.5		4.6 111.9
971000	Materials, parts, containers, and supplies, n.s.k.1		457.9		217.3
	INDUSTRY 2542, PARTITIONS AND FIXTURES, EXCEPT WOOD				
	Materials, parts, containers, and supplies		1 048.4		761.0
242111	Hardwood lumber, rough and dressed		2.0 3.4		3.4 3.0
242123 243540 243510	Softwood lumber, rough and dressed		(2) 7.0		.7 1.0
243601 249310	Softwood plywood		2.7 14.9		2.5 10.1
249330 249340	Medium density fiberboard (MDF)		3.8 22.1		1.5 10.5
265001 285101	Paperboard containers, boxes, and corrugated paperboard Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products		34.4 41.2		21.8 25.4
308301 229508	Plastics laminated sheets Coated or laminated fabrics for upholstery, including vinyl coated		11.8 2.9		4.2 1.3
	Mill shapes and forms, except castings: Carbon steel, including wrought iron:				
331012 331085	Sheet and strip		365.5 107.8		299.3 54.2
331020 331031 335001	Alloy steel mill shapes and forms, except stainless Stainless steel mill shapes and forms Aluminum and aluminum-base alloy mill shapes and forms		9.3 8.9 18.1		10.1 4.9 14.8
342901	Furniture and builders' hardware, including cabinet hardware, casters, glides, handles, hinges, locks, etc		29.6		21.4
308971 970099	Plastics furniture parts and components		9.5 ² 147.1		3.9 158.0
971000	Materials, parts, containers, and supplies, n.s.k.1	19	87	19	109.0
1987 material code	Material		Delivered cost		Delivered cost
		Quantity ³	(million dollars)	Quantity ³	(million dollars)
	INDUSTRY 2591, DRAPERY HARDWARE AND BLINDS AND SHADES				
	Materials, parts, and supplies	(X)	734.0	(X)	460.1
	Mill shapes and forms, except castings: Carbon steel:				
331012 331019	Sheet and strip1,000 s tonsAll other carbon steel mill shapes and forms do	39.7 *2.9	43.8 10.7	100.7 (NA)	79.4 (⁴)
335301	Aluminum and aluminum-base alloy: Sheet, plate, and foilmil lb	*31.6	89.1	43.0	65.6
335405 335008	Extruded shapes, including extruded rod, bar, pipe, tube, etc	(S)	29.5	(S)	15.8
229506	rod and bar, powder, welded tubing, etc.) do_ Plastics coated fabrics and shade cloth	(S)	23.1 64.7	*7.3 **27.7	9.9 42.6
229801 224110	Cordage mil lin ft Woven narrow tape and webbing do_	(X) (S) (S)	20.2 7.2	466.6 170.8	8.0 13.7
308007	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	(×)	54.8	(X)	41.4
970099 971000	All other materials, components, parts, containers, and supplies.	(X)	106.0	(X)	498.0
371000	Materials, components parts, containers, and supplies, n.s.k. ¹	(X)	284.9	(X)	85.7

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material	1987 delivered cost (million dollars)	1982 delivered cost (million dollars)
	INDUSTRY 2599, FURNITURE AND FIXTURES, N.E.C.		
	Materials, parts, and supplies	661.8	481.9
242111 242123 243540 243510 243601 249310	Hardwood lumber, rough and dressed Softwood lumber, rough and dressed Hardwood veneer Hardwood plywood Softwood plywood Particleboard (wood)	34.4 4.0 1.3 5.2 4.0 5.9	16.6 4.2 4.7 6.8 5.9 4.1
249330 249340 265001 285101 308301 229508	Medium density fiberboard (MDF)	2.1 1.5 8.8 9.0 11.4 20.3	1.5 1.1 6.6 7.5 6.3 10.2
331012 331085 331020 331031 335001 342901 308971	Mill shapes and forms, except castings: Carbon steel, including wrought iron: Sheet and strip. All other carbon steel mill shapes and forms, including tubing	21.3 13.9 5.9 26.1 16.3 31.2	18.3 32.3 5.8 40.9 15.9
970099 971000	All other materials and components, parts, containers, and supplies Materials, parts, containers, and supplies, n.s.k.¹	149.6 283.4	113.9 155.3

¹Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.
²For 1987, material code 243540 is included with 970099.
³For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure:* 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).
4For 1982, material code 331019 was included with 970099.

APPENDIX A. Explanation of Terms

This appendix is in two sections. Section 1 includes items requested of all establishments mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) not included on the report forms but derived from information collected on the forms. Section 2 covers supplementary items requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in table 3c of this report.

SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

Number of establishments and companies—As discussed in the Introduction, a separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction of the General Summary subject report.

Employment and related items—The report forms requested separate information on production workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods.

Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production workers—This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All other employees—This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual

industries shown in this report. They are included in the general summary and geographic area reports as a separate category.

Payroll—This item includes the gross earnings of all employees on the payroll of operating manufacturing establishments paid in the calendar year 1987. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

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

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

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

Production-worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

Cost of materials—This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by

others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

Specific materials consumed—In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Information on the establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See the introduction for the importance of administrative records in the industry.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

Individual products—As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1987 census program, information was collected on the output of approximately 11,000 individual product items. The term "product", as used in the census of manufactures, represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, "pharmaceutical preparations" was distributed into over 100 terms; whereas, "motor gasoline" was reported as a single item.

Approximately 6,600 of the product items were listed separately on the 1987 census report forms. Data for

about 4,400 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1987 for these items, as derived from the commodity surveys, are shown in the "products shipped" table (table 6a-2).

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1982 information is presented for most products.

Typically, both quantity and value of shipments information were collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

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

Classes of products—To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Introduction, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1987 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

Duplication in cost of materials and value of shipments— The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

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

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the United States level and beginning in 1964, for all geographic levels.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1a), value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and any known plants under construction, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to

manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures include expenditures leased from nonmanufacturing concerns through capital leases, new facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in table 3b.

End-of-year inventories—Respondents were asked to report their 1986 and 1987 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 through 1987 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications.

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

Specialization and coverage ratios—These items are not collected on the report forms but are derived from the data shown in table 5b. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

As noted in the introduction, an establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in tables 1a through 5a and data on product shipments shown in tables 6a through 6c.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

The following items were collected only from establishments included in the ASM sample:

 Supplemental labor costs—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans.

They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

- 2. Retirements of depreciable assets—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.
- 3. Depreciation charges for fixed assets—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.
- 4. Rental payments—Total rental payments is collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

Depreciable assets—Total value of gross depreciable assets is collected on all census forms. However, the detail for depreciable assets is collected only on the ASM forms. The data encompass all fixed depreciable assets on the books of establishments at the beginning and end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

- 6. New and used capital expenditures—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)
- 7. Quantity of electric energy consumed for heat and power—Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the ASM forms. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
- 8. Breakdown of new capital expenditures for machinery and equipment—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement. Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

- 9. Foreign content of cost of materials—Establishments included in the ASM sample panel were requested to provide information on foreign-made materials purchased or transferred from foreign sources. This includes materials acquired from a central warehouse or other domestic establishment of the same company but made in an operation outside of the 50 States, District of Columbia, Puerto Rico, or U.S. territories.
- Cost of purchased services—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, and communication services. Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Three basic approaches were utilized to produce these statistics.

1. For items 1 through 6, data were estimated (imputed) for all non-ASM establishments using the available data in the establishment record and industrybased parameters. The statistics were then generated by simply tabulating all census records including the imputed value for non-ASM establishments and the unweighted value for ASM establishments. Separate imputation rates were developed and are shown in the table. For quantity of purchased electricity for heat and power (item 7), a similar procedure was used; however, the imputation parameters were geographically-based instead of industrybased. For quantities of generated less sold electricity, no imputation was performed for non-ASM establishments. The estimates for these items are simply tabulations of unweighted ASM values.

Since the published statistics for these items were developed from the complete census universe and not just the ASM establishments, there are no sampling variances associated with these statistics. However, there is an unknown level of bias for each of the items due to the imputation of the non-ASM establishments. This bias is felt to be small due to the strong correlation between the items being imputed and the collected items that were used to generate the impute values.

2. For items 8 and 9, the estimates were developed using a ratio estimation methodology. For item 8, an estimate of the breakout of new capital expenditures for machinery and equipment into the three categories was made from ASM establishments reporting these categories. The estimated proportions were then applied to the corresponding Census value for new capital expenditures for machinery and equipment to produce the estimates.

The estimates for item 9, foreign content of cost of materials, were developed in a similar manner based on costs of parts, supplies, and components (item 5a) as the control total for the three categories.

For items 8 and 9, an adjustment ratio of the following form was computed.

$$Rj = \frac{NMc}{TMEasm}$$

where:

NMc = the census value of new capital expenditures for machinery and equipment

TMEasm = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data

3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item. A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3c for the three types of services. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

APPENDIX B.

Annual Survey of Manufactures (ASM) Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The Annual Survey of Manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 56,000 manufacturing establishments selected from a total of about 220,000 establishments. These 220,000 establishments represent all manufacturing establishments of multiunit companies and all single establishment companies mailed schedules in the 1982 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1982 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

The 1984 through 1988 ASM sample differs slightly from the previous sample. For the current panel, all establishments of companies with 1982 shipments in manufacturing in excess of \$500 million were included in the survey panel with certainty. There are approximately 500 such companies collectively accounting for approximately 18,000 establishments. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included in the survey panel with certainty. A total of 12,100 establishments were selected from this portion of the universe with certainty. Therefore, of the 56,000 manufacturing establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments collectively account for approximately 80 percent of the total value of shipments in the 1982 census.

Smaller establishments in the remaining portion of the mail survey were sampled with probabilities ranging from 0.999 to 0.005 in accordance with mathematical theory for optimum allocation of a sample. The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. The measures of size depend directly upon each establishment's 1982 product class values and the historic variability of the year-to-year shipments of each product class. Product classes displaying more volatile year-to-year change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other

general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of small establishments out of a given sample panel without introducing a bias into the survey estimates.

The nonmail portion of the survey includes all singleestablishment companies that were tabulated as administrative records in the 1982 Census of Manufactures. Although this portion contained approximately 130,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative-record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1983-1986 were computed using a difference estimation procedure. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1982 census published number for an item total and the linear ASM estimate of the total for 1982. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the estimates for the years 1983-1986. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

The 1987 sample estimates for the purchased service items, shown in table 3c, are strictly ASM linear estimates, however, developed only from ASM establishments that reported the specific item.

The remaining estimates in table 3c, showing the break-down of expenditures for new machinery and equipment and costs of parts (separated into purchases from foreign sources and purchases from domestic sources), were computed as ratio estimates. To do this, linear estimates of the new machinery detail items were developed from the ASM establishments and were ratio adjusted to the corresponding census total for new machinery. In a similar fashion, the ASM linear estimates of the detailed purchased materials items were ratio adjusted to the corresponding census total for cost of parts.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, completecoverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

- From one standard error below to one standard error above the derived estimate for about twothirds of all possible samples.
- From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
- From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

APPENDIX C. Changes in Census of Manufactures Product Classes for 1987

[Based on revisions to the Standard Industrial Classification (SIC) Manual definitions of some product classes were revised for 1987. Listed below are the revisions to the product classes]

1987	1982	1987	1982	1987	1982	1987	1982
2011B	2011A 2013A pt	20866—Con.	20861 pt—Con. 20995 pt	2221F—Con.	22211 pt—Con. 22212 pt 22213 pt	23259—Con.	23279 — Con. 23289 pt
20135	20130	20910	20324 pt 20910		22214 pt 22215 pt	23260	23280
013B	2013A pt	20925	20924	-	22216 pt 22217 pt	23261	23281
0150	20160 20170	20926		2221G	22211 pt	23262	23284
0151	20161	20961 20962	20992		22213 pt 22214 pt	23269	23289 pt
20152	20171	20963	20981 pt		22215 pt 22216 pt 22217 pt	23293	23271 pt 23292
0153	20172	20997	20341 pt 20440 pt	2221H	22211 pt	23530	23510 pt 23520
	20173		20982 2099A pt		22212 pt 22213 pt 22214 pt	23531	23521
0154	20164 20174	20999	2099B pt		22215 pt 22216 pt	23532	23522
0155	20165	2099D	20995 pt		22217 pt	23533	23510 pt
	20175	2099E	2099C	2221J	22218	23692	23631
0159	20179	2099F 2099G	20981 pt	2221K	22219	23693	23691
0226	20220	2211B	22111 pt 22112 pt	2221M	2221A	23699	23619 23699
0239 	20239 2099A pt		22113 pt 22114 pt	22510	22510 pt 22512 pt	23813	23811 pt
0267	20266 pt 2099B pt		22115 pt 22116 pt	22514	22512 pt 22517 pt	_	23812 pt
0268	20266 pt 2099B pt	2211C	22111 pt 22112 pt	22520	22510 pt	23814	23811 pt 23812 pt
0324	20324 pt		22113 pt 22114 pt 22115 pt		22520	23952	23951 pt
0343	20341 pt		22116 pt	22525	22512 pt 22523	23958	23959
0380	20380 pt	2211D	22111 pt 22112 pt	22526	22517 pt 22524	23964	23951 pt
0384	20381 pt		22113 pt 22114 pt 22115 pt	22585	22920 pt	24930	24920 pt 26610
	20383 pt		22116 pt	22589	22589	24931	24920 pt
0415	20383 pt 20415	2211E	22111 pt 22112 pt		22920 pt	24932	24920 pt
0440	20440 pt		22113 pt 22114 pt 22115 pt	22730	22710 pt 22720 pt 22790 pt	24933	24993
0450	20383 pt 20450		22116 pt	22731	22710 pt	24934	24996
0470	29470 pt	2211F	22117	22732	22720 pt	24935	26611
0480	20470 pt	2211G	22119	22733	22790 pt	24936	24998
	20480	2211H	2211A			24937	24995
048A	20475 20476	2221B	22211 pt 22212 pt 22213 pt	22815	22833	24994	2499A pt
0530	20380 pt 20381 pt		22214 pt 22215 pt 22215 pt 22216 pt 22217 pt	22822	22822 22830	25115	25115 25158
0640	20650 pt			22991	22910	25145	25141 25142
0642	20652	2221C	22211 pt 22212 pt	22994	22940	25146	25143
0643	20653		22211 pt 22212 pt 22213 pt 22214 pt 22215 pt	22995	22930	25147	25144
0649	20659		22216 pt 22216 pt 22217 pt	22996	22992 22993	25425	25990
0660	20660 20990 pt	2221D		23219	23219 pt	25991 25992 25994	
0669	20668		22211 pt 22212 pt 22213 pt 22214 pt 22215 pt	23221	23220	2621B	26612
_	20998		22216 pt	23222	23215	26560	26540
0680	20341 pt 20650 pt		22217 pt	23229	23219 pt 23229	26561	26541
0863	20657	2221E	22211 pt 22212 pt 22213 pt	23250	23270	26562	26542
0863 0864 0865	20861 pt		22213 pt 22214 pt 22215 pt	23251	23271 pt	26563	26545
			22216 pt 22217 pt	23252	23283	26570	26510
0866	20861 pt 20862	2221F	22211 pt	23259	23279		26544

[Based on revisions to the Standard Industrial Classification (SIC) Manual definitions of some product classes were revised for 1987. Listed below are the revisions to the product classes]

1987	1982	1987	1982	1987	1982	1987	1982
6710	26410 pt	26753	26455	27591	27511 pt	28350—Con. 28351	2831A—Con.
26711	26415	26760	26470	27592	27512 pt	28352	
26712	26416	26761	26471	27593	27513 pt	28360	28310
6713	26419	26763	26473	27594	27514 pt	28361	28311
6714	2641A	26764	26474	27595	27515 pt	28362	28312
6720	26410 pt	26770	26420	27596	27516 pt	28363	28317
26721	26411	26780	26480	27597	27511 pt 27512 pt 27513 pt	28364	28318 28319
6722	26413	26781	26481		27514 pt 27515 pt	28656	2911C
		26782	26482		27516 pt	28691	29118
6723	26414	26790	26460 pt 26490	27598	27519	28916	28915
26724	2641B			27599	27531	28917	
6730	26430 pt	26791	26493	2759A	27510 pt	2911D	2911D pt
6731	26435	26792	26494	27960	27530 27950	29990	2911D pt 29990
6732	26436	26793	26496				-
6733	26437	26794	26460 pt	27961	27951 35557 pt	31430	31430 31433 31434
6740	26430 pt	26795	26497	27962	27952		31435
6741	26434	27416 27417	27411	27963	27532 27547	31440	31440 31445
6742	26438	27418	27412		27930 27940		31446 31447 31448
6750	26450	27419	27414	28247	28243 28245	31490	31490
6751	26453	2741A 2741B	27415	28248	28246	-	31491 31493 31495 31496 31497
26752	26454	27590	27510 pt	28350	2831A		

APPENDIX D. Changes in Census of Manufactures Product Codes for 1987

report forms for	or 1987]										
1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published
20119 14	20119 14	20119 12 20119 13	20159 17	20179 17	20179 17	20343 21	20341 21	20341 21	20488 21	20488 21	20488 18
	2014P 15		20159 51	20179 51	20179 51	20343 23	20341 23	20341 23	20488 23	20488 23	20488 17 pt
2011B 15 2011B 41	2011B 15 2011B 41	2011A 15 2011A 41	20159 53	20179 53	20179 53	20343 29	20341 29	20341 29	20488 25	20488 25	20488 19 pt
2011B 41 2011B 55	2011B 41	2011A 41	20159 55	20179 55	20179 55	20343 31	20341 31	20341 32 20341 33	20488 31	20488 31	20488 17 pt
2011B 99	2011B 99	2011A 31	20159 57	20179 57	20179 57			20341 35	20488 33	20488 33	20488 19 pt
20110 99	20110 99	2011A 51	20226 00	20220 11	20220 00	20352 31 20352 34	20352 31 20352 34	20352 33	2048A 01	20475 35	20475 35
20135 13 20135 17	20135 13 20135 17	20130 00	20235 22	20235 22	20235 28 pt	20354 35	20354 35	20354 31	2048A 03	20475 52	20475 52
20151 33	20161 33	20161 33	20235 29	20235 29	20235 21			20354 33 20354 39	2048A 05	20476 61	20476 61
20151 34	20161 34	20161 34			20235 28 pt	20382 26 20382 28	20382 26 20382 28	20382 27	2048A 07	20476 63	20476 63
20151 36	20161 36	20161 36	20239 23	20239 23	20239 29 pt	20384 51	20383 51	20383 51	2048A 09	20476 65	20476 65
20151 39	20161 39	20161 39	20239 25	2099A 12	2099A 11 pt	20384 59	20383 59	20383 59	2048A 11	20476 67	20476 67
20154 41	20171 39	20171 39	20239 28	20239 28	20239 29 pt	20384 63	20383 63	20381 18	2048A 13	20476 69	20476 69
20151 41	20161 41 20171 41	20161 41 20171 41	20239 32 20239 38	20239 32 20239 38	20239 31 20239 37	20384 69	20383 69	20383 61 pt	20512 39 20512 40	20512 39 20512 40	20512 38
20152 21	20162 21 20172 21	20162 21 20172 21			20239 37	20411 26	20411 26	20411 24	20512 42	20512 42	0005
20152 23	20162 23	20162 23	20240 31	20240 31	20240 98 pt	-		20411 25	20530 11	20381 11	20381 11
	20172 23	20172 23	20240 52 20240 54	20240 52 20240 54	20240 51	20412 19	20412 19	20412 00 20412 17	20530 13	20381 13	20381 13
20153 22	20163 22 20173 22	20163 21 pt 20173 21 pt	20240 99	20240 99	20240 98 pt	20415 91 20415 93	20383 65 20383 66	20383 61	20530 14	20381 14	20381 14
20153 24	20163 24 20173 24	20163 23 pt 20173 23 pt	20267 11	2099B 11	2099B 11	20415 93	20383 66	20430 19	20530 17	20381 17	20381 17
20153 26	201/3 24	201/3 25 pt	20267 13	2099B 13	2099B 13	20430 23	20430 23	20430 19	20642 00	20652 00	20652 00
	20173 26	20173 25 pt	20267 14	2099B 14	2099B 19 pt	20430 55	20430 55	20430 52 pt	20643 00	20653 00	20653 00
20153 27	20163 27	20163 21 pt 20163 23 pt	20267 16	2099B 16	20000 17	20430 57	20430 57	20430 53 pt	20649 21	20659 21	20659 21
	20173 27	20163 25 pt 20173 21 pt	20267 17	20267 17	20266 17	20430 61	20430 61	20430 59 pt	20649 76	20659 76	20659 76
		20173 23 pt 20173 25 pt	20267 18	2099B 18	2099B 19 pt	20430 63	20430 63	20430 52 pt 20430 53 pt	20669 11	20668 11	20668 11
20154 14	20164 14 20174 14	20164 14 20174 14	20268 13	2099B 51	2099B 51			20430 59 pt	-	20998 11	20998 11
20154 16	20164 16	20164 16	20268 19	20268 15	20266 15	20450 91 20450 93	20383 67 20383 68	20383 61	20669 21	20668 21 20998 21	20668 21 20998 21
	20174 16	20174 16	20324 97	20324 97	20324 98	20464 72 20464 75	20464 72 20464 70	20464 69	20669 63	20668 63	20668 63
20155 11	20165 11 20175 11	20165 11 20175 11	20324 99	20324 99	20024 30	20481 21	20481 21	20481 13 pt	-	20998 63	20998 63
20155 13	20165 13	20165 13	20331 13	20331 13	20331 71	20481 22	20481 22	20481 17 pt	20669 71	20668 71 20998 71	20669 71 20998 71
20155 15	20175 13	20175 13	20331 32	20331 32	20331 72	20481 23	20481 23	20481 26 pt	20669 75	20668 75 20998 75	20668 75 20998 75
20105 15	20165 15	20175 15	20331 36	20331 36	20331 73	20481 24	20481 24	20481 28 pt	20669 81	20668 81	20668 81
20155 31	20165 31 20175 31	20165 31 20175 31	20331 38	20331 38	20331 74	20481 31	20481 31	20481 13 pt	20669 92	20668 92	20668 92
20155 32	20165 32	20165 32	20331 41	20331 41	20331 75	20481 32	20481 32	20481 17 pt		20998 92	20998 92
	20175 32	20175 32	20332 05	20332 05	20332 08 20332 09	20481 33	20481 33	20481 26 pt	20669 93	20668 93 20998 93	20668 93 20998 93
20155 33	20165 33 20175 33	20165 33 20175 33	20222.07	20222 27	20332 92	20481 34	20481 34	20481 28 pt	20669 95	20668 95	20668 95
20155 34	20165 34	20165 34	20332 37	20332 37	20332 96	20483 01	20483 01	20483 00	20670.11	20998 95	20998 95
20155 39	20175 34	20175 34	20336 14	20336 14	20336 13	20483 02	20483 02		20670 11 20670 14	20670 11 20670 14	20670 12
	20165 39 20175 39	20165 39 20175 39	20336 15 20336 31	20336 31	20336 19	20485 03 20485 04	20485 03 20485 04	20485 00	20680 13	20657 13	20657 13
20155 48	20165 48 20175 48	20165 48 20175 48	2033B 21	2033B 21	2033B 00	20487 05	20487 05 20487 06	20487 00	20680 15	20657 15	20657 15
20159 11	20179 11	20179 11	20343 13	20341 13	20341 13	20487 06		20488 14	20680 17	20657 17	20657 17
20159 13	20179 13	20179 13	20343 15	20341 15	20341 15	20488 11	20488 11	20488 14	20680 33	20657 33	20657 33
20159 15	20179 15	20179 15	20343 18	20341 18	20341 18	20488 13	20488 12 20488 13	20488 15	20680 35	20657 35	20657 35

	(1897]													
1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published			
20680 37	20657 37	20657 37	20863 20— Con.	20863 20— Con.	20863 01— Con.	20922 27 20922 28	20922 27 20922 28	20922 29	2099E 33	2099E 33	2099C 33			
0680 53	20657 53	20657 53			20863 36 20863 37	20922 31	20922 31		2099E 38	2099E 38	2099C 38			
0680 55	20657 55	20657 55			20863 38 20863 39 20863 42	20923 11 20923 13	20923 11 20923 13	20923 21	2099E 39	2099E 39	2099C 39			
0680 57	20657 57	20657 57			20863 44 20863 45	20923 15	20923 15	20923 22	2099F 44	2099F 44	2099C 44			
0680 61	20657 61	20657 61			20863 47	20923 17	20923 17	20923 22	2099F 46	2099F 46	2099C 46			
0740 98	20740 98	20740 00	20863 30	20863 30	20861 01 pt 20861 03 pt	20923 19	20923 19	20923 23	2099G 11	2099G 11	2099C 11			
0750 98	20750 98	20750 00			20861 07 pt 20861 10 pt	20923 31	20923 31	20923 26	2099G 25	2099G 25	2099C 25			
0760 94 0760 95	20760 94 20760 95	20760 00			20861 11 pt 20861 12 pt 20861 13 pt	20923 33	20923 33		2099G 51	2099G 51	2099C 51			
0760 96 0760 97	20760 96 20760 97				20861 14 pt 20861 15 pt	20923 35	20923 35	20923 28 20923 29	2099G 85	2099G 85	2099C 85			
0760 98	20760 98				20861 16 pt	20925 21	20925 21	20924 21	2099G 91	2099G 91	2099C 91			
0821 01	20821 01	20821 14 20821 19 pt			20861 17 pt 20861 18 pt 20861 19 pt	20925 22	20925 22	20924 22	2099G 98	2099G 98	2099C 98			
0821 02	20821 02	20821 15			20861 20 pt 20861 21 pt	20925 23	20925 23	20924 33 pt	2211B 00	2211B 00	22111 00			
		20821 19 pt	-		20861 22 pt 20861 23 pt	20925 24	20925 24	20924 24	1		22112 00 22113 00			
0821 03	20821 03	20821 18 20821 19 pt			20861 24 pt 20861 26 pt 20861 27 pt	20925 25	20925 25	20924 25	1		22114 10 22114 50			
0824 99	20824 99	20824 71			20861 28 pt	20925 26	20925 26	20924 26			22115 00 p 22116 00 p			
		20824 81 20824 91			20861 29 pt 20861 31 pt	20925 31	20925 31	20924 31	2211C 00	2211C 00	22111 00 p 22112 00 p			
0840 45	20840 45	20840 43			20861 32 pt 20861 33 pt 20861 34 pt	20925 32	20925 32	20924 32	1		22113 00 22114 10			
0840 46	20840 46				20861 36 pt 20861 37 pt	20925 33	20925 33	20924 33 pt	-		22114 30 22114 50			
0851 48	20851 48	20851 41 20851 45			20861 38 pt 20861 39 pt	20925 34	20925 34	20924 34	-		22115 00 22116 00			
		20851 49	_		20861 42 pt 20861 44 pt	20925 35	20925 35	20924 35	2211D 00	2211D 00	22111 00			
1863 10	20863 10	20861 01 pt 20861 03 pt 20861 07 pt			20861 45 pt 20861 47 pt	20925 36	20925 36		-		22112 00 22113 00			
		20861 10 pt 20861 11 pt	20864 10	20864 10	20861 51 20861 52 20861 53 20861 55 20861 56 20861 57 20861 58 20861 59			20924 36	2211E 00		22114 10 p 22114 30 p 22114 50 p			
		20861 12 pt 20861 13 pt 20861 14 pt				20926 11 20926 13 20926 98	20926 11 20926 13 20926 98	20924 98			22115 00 22116 00			
		20861 15 pt 20861 16 pt 20861 17 pt				20951 15	20951 15	20915 18 20951 17		2211E 00	22111 00 p 22112 00 p 22113 00 p			
		20861 18 pt 20861 19 pt 20861 20 pt 20861 21 pt 20861 22 pt 20861 23 pt 20861 24 pt 20861 25 20861 26 pt	20861 18 pt 20861 19 pt 20861 20 pt 20861 21 pt 20861 22 pt 20861 23 pt 20861 24 pt 20861 25	20861 18 pt 20861 19 pt	20865 01	20865 01	20861 81 pt	20961 00	20992 13	20992 12			22114 00 22114 10	
						20861 83 pt	20980 21	20981 21	20981 21			22114 30 22114 50 22116 00		
				20861 23 pt 20861 24 pt 20861 25	20861 23 pt	20865 02	20865 02	20861 81 pt 20861 83 pt	20980 31	20981 31	20981 31	2211F 00	2211F 00	22117 00
					20866 01	20866 01	20866 01	20862 88 pt	20997 13	2099A 13	2099A 11 pt	22111 00	22111 00	22117 11 22117 31
		20861 27 pt			20862 89 pt	20997 21	2099A 21	2099A 21			22117 51 22117 61			
		20861 28 pt 20861 29 pt	20866 02	20866 02	20862 85 20862 86	20997 31	2099A 31	2099A 31	2211G 10	2211G 10	22119 00			
		20861 31 pt 20861 32 pt 20861 33 pt			20862 88 pt 20862 89 pt	20997 41	2099A 41	2099A 41	2211G 30	2211G 30				
		20861 34 pt 20861 36 pt	20866 03	20866 03	20862 91	20997 61	20341 36	20341 36	2211H 37	2211H 37	2211A 37			
		20861 37 pt 20861 38 pt	20866 04 20866 05	20866 04	20861 93	20997 71	20440 19	20440 19	2211H 42	2211H 42	2211A 42			
		20861 39 pt		20866 05	00001 00 11	20997 81	20982 35	20982 35	2211H 43	2211H 43	2211H 43			
		20861 42 pt 20861 44 pt 20861 45 pt	20866 06	20866 06	20861 83 pt	20997 85	20982 41	20982 41	2211H 44	2211H 44	2211A 44			
		20861 47 pt	20866 07	20995 85	20995 85	20997 98	2099A 98	2099A 98	2211H 46	2211H 46	2211A 46			
20 20	20863 20	20863 01 20863 03	20866 09	20866 09	20860 00	20999 21	2099B 21	2099B 21	2211H 62	2211H 62	2211A 62			
		20863 07 20863 10	20873 21	20873 21	20873 13 pt 20873 39 pt	20999 31	2099B 31	2099B 31	2211H 65	2211H 65	2211A 65			
		20863 12 20863 13 20863 14 20863 15 20863 16 20863 17	20873 23	20873 23	20873 13 pt 20873 39 pt	20999 35	2099B 35	2099B 98 pt	2211H 67	2211H 67	2211A 67			
			20873 25	20873 25	20873 39 pt 20873 13 pt 20873 39 pt	20999 41	2099B 41	2099B 41	2211H 69 2211H 73	2211H 69 2211H 73	2211A 69 2211A 75			
		20863 18 20863 19	20873 41	20873 41	20873 39 pt 20873 13 pt 20373 39 pt	20999 53 20999 55 20999 98	2099B 53 2099B 55 2099B 99	2099B 98	2211H 75 2221B 00	2211H 75 2221B 00	22211 00			
		20863 20 20863 21 20863 22	20873 43	20873 43	20873 13 pt	2099D 82	20995 82	20995 82			22212 00 22213 00 22214 00			
		20863 23 20863 24			20873 39 pt	2099D 83	20995 83	20995 83			22214 00 22215 00 22216 00			
		20863 26 20863 27 20863 28	20873 45	20873 45	20873 13 pt 20873 39 pt	2099D 86	20995 86	20995 86			22217 10 22217 30			

report forms to	15011												
1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published		
2221C 00 — Con.	2221C 00— Con.	22214 00 pt —Con.	22514 37	22512 37	22512 37	22840 51	22840 51	22840 15 pt 22840 28 pt	23531 01	23521 15	23521 15		
COII.	COII.	22217 10 pt 22217 30 pt	22514 39	22512 39	22512 36 22512 38	22840 61	22840 61	22840 35	23531 03	23521 41	23521 41		
2221D 00	2221D 00	22211 00 pt	22514 45	22512 45	22512 45	22950 00	22950 00	22950 00	23531 05	23521 83	23521 83		
		22212 00 pt 22213 00 pt 22214 00 pt	22518 14	22517 14	22517 15 pt	22950 98	22950 98		23531 09	23521 91	23521 91		
		22215 00 pt 22216 00 pt	22518 17	22517 17	22517 17	22991 00	22910 00 pt	22910 00 pt	23532 01	23522 12	23522 12		
		22217 10 pt 22217 30 pt	22525 11	22523 11	22523 11	22991 12 22991 13	22910 12 22910 13	22910 11	23532 03	23522 15	23522 15		
2221E 00	2221E 00	22211 00 pt	22525 15	22512 11	22512 11	22991 15 22991 17	22910 15 22910 17	22910 19	23532 05	23522 17	23522 17		
		22212 00 pt 22213 00 pt 22214 00 pt	22525 17	22523 17	22523 17	22991 21	22910 21	22910 00	23532 09	23522 98	23522 98		
		22215 00 pt 22216 00 pt	22525 21	22523 21	22523 21	22991 23	22910 23		23533 01	23510 12	23510 12		
		22217 10 pt 22217 30 pt	22525 27	22523 27	22523 27	22991 35	22910 35	22910 36 22910 38	23533 03	23510 41	23510 41		
2221F 00	2221F 00	22211 00 pt 22212 00 pt	22525 31	22523 31	22523 31	22991 47	22910 47	22910 47	23533 09	23510 93	23510 93		
		22213 00 pt 22214 00 pt	22525 51	22523 51	22523 51	22994 22	22940 22	22940 14 pt	23613 00	23613 00	23611 30 p 23612 00		
		22215 00 pt 22216 00 pt	22525 57	22523 57	22523 57	20004.21	22040.21	22940 21 pt 22940 14 pt	23614 00	23614 00	23611 30 p		
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28444 71	28444 71	28444 73 28444 75			28611 23 28611 99	28917 51	28917 51	28915 63 pt			31434 00 31435 00
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28445 03	28445 03	28445 12	28656 58	2911C 58	2911C 58	28917 71	28917 71	28915 67 pt	_		31447 00 31448 00
28445 04	28445 04	28445 13	28656 59	2911C 59	2911C 59	28920 39	28920 39	28920 35 28920 37	31490 10	31490 10	31497 23
28445 05	28445 05	28445 14				28920 57	28920 57	28920 53 28920 55	31490 20	31490 20	31491 00 31493 00
28445 08 28445 09	28445 08 28445 09	28445 15	28691 32	2911B 32	2911B 32	28995 25	28995 25	28995 29			31495 00 31496 00
28445 50	28445 50	28445 45	28691 33	2911B 33	2911B 33	28995 26	28995 26				31497 25
_		28445 48	28695 25 28695 27	28695 25 28695 27	28695 21	28995 40 28995 42 28995 45	28995 40 28995 42 28995 45	28995 37	31510 00	31510 00	31510 20 31510 70
28445 59 28445 99 	28445 59 28445 99 28511 00	28445 95 28511 11	28742 00	28742 00	28742 00 28742 10 28742 71	28995 69 28995 70	28995 69 28995 70	28995 68	31610 01	31610 01	31610 16 pt 31610 18 pt 31610 35 pt 31610 37 pt
20011 00	20011 00	28511 21 28511 22	28744 10	28744 10	28744 21 pt 28744 31 pt	28995 71 28995 82	28995 71 28995 82	28995 81			31610 37 pt
		28511 24 28511 25 28511 35 28511 37	28744 20	28744 20	28744 11 pt 28744 21 pt	28995 83 28995 84	28995 83 28995 84	28993 01	31610 03	31610 03	31610 16 pt 31610 18 pt 31610 35 pt
		28511 38 28511 43				28995 88 28995 89	28995 88 28995 89	28995 87			31610 37 pt 31610 39 pt
		28511 45 28511 47	28744 40	28744 40	28744 31 pt 28744 11 pt	28995 94 28995 96	28995 94 28995 96	28995 95	31610 05	31610 05	31610 16 pt 31610 18 pt
		28511 49 28511 53 28511 57 28511 59	28744 50	28744 50	28744 21 pt 28744 31 pt	28995 98 28995 99	28995 98 28995 99	28995 97			31610 35 pt 31610 37 pt 31610 39 pt
		28511 63 28511 65	28744 60	28744 60	28744 11 pt	29118 59	29118 59	29118 54	31610 07	31610 07	31610 24 31610 32
		28511 69 28511 71 28511 73			28744 21 pt			29118 58	31610 09	31610 09	31610 32 31610 16 pt
		28511 75 28511 77	28744 70	28744 70	28744 31 pt	2911D 23 2911D 25	2911D 23 2911D 25	2911D 21	31010 09	31010 03	31610 18 pt 31610 35 pt
		28511 81 28511 83	28511 81 28750 10	28750 10	28750 21 pt 28750 31 pt	29521 13	29521 13	29521 11			31610 37 pt 31610 39 pt



PUBLICATION PROGRAM

1987 CENSUS OF MANUFACTURES

Publications of the 1987 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

Preliminary Reports

Industry series—83 reports (MC87-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the U.S. and States are released in one report.

Final Reports

Industry series—83 reports (MC87-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ("dairy products" includes industries for butter, cheese, milk, etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents, inventories, employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry, data on value of shipments, value added buy manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

Geographic area series—51 reports (MC87-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MSA's, counties, and selected places. Comparative statistics for earlier census years are shown for the State and large MSA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

Subject series—7 reports (MC87-S-1 to -7)

Each of the seven reports contains detailed statistics for an individual subject, such as concentration ratios in manufacturing, type of organization, water use in manufacturing, textile machinery in place, distribution of sales by class of customer, manufacturers' shipments to the Federal Government, and a general national-level summary.

Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries

Location of Manufacturing Plants—1 report (MC87-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and zip codes for each State. (This report is available only on magnetic tape and CD-ROM.)

Analytical Reports—3 reports (AR87-1 to -3)

Exports From Manufacturing Establishments (AR87-1)

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

Selected Characteristics of Manufacturing Establishments That Export (AR87-2)

This report presents data on the number of manufacturing companies and establishments that export by major group, State, employment size, and ratios of exports to shipments.

Indexes of Production (AR87-3)

The indexes presented in this report are designed to measure the change in physical output of each manufacturing and mineral industry between 1982 and 1987.

MICROFICHE

Every final published report in the 1987 Census of Manufactures will be available on microfiche.

PUBLIC-USE COMPUTER TAPES AND COMPACT DISCS

Data from the final industry series, geographic area series, and the Location of Manufacturing Plants report will be available on public-use computer tapes and compact discs-read only memory (CD-ROM). These tapes will provide the same information found in the final reports. Computerized data products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, mineral industries, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.





