

1963
CENSUS OF MANUFACTURES

VOLUME II
PRELIMINARY REPORTS

AREA STATISTICS

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1963 CENSUS OF MANUFACTURES

INDEX OF PRELIMINARY AREA REPORTS

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ALABAMA

ALBANY

ALBANY

1963 CENSUS OF MANUFACTURES

MC63(P)-S1



preliminary
report

Area series

ALABAMA

Value added by manufacturing in 1963 in the State of Alabama amounted to \$2,342 million an increase of 13 percent from 1962 and 32 percent from 1958. Of this total, \$509 million was contributed by the Primary Metal Industries, and \$232 million by the Chemical Industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.—GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	4,100	1,261	244,241	1,157,450	197,800	391,110	840,336	2,342,124	152,130	106	132
1962 ³	(NA)	(NA)	234,928	1,067,397	192,188	372,199	776,502	2,074,921	129,104	102	117
1961 ³	(NA)	(NA)	227,459	997,278	185,269	358,654	723,913	1,941,002	166,673	99	110
1960 ³	(NA)	(NA)	229,496	982,835	187,631	364,942	719,688	1,957,616	202,265	100	111
1959 ³	(NA)	(NA)	229,756	964,396	188,210	370,315	708,046	1,884,236	151,084	100	106
1958.....	3,927	1,195	229,830	920,009	188,743	363,169	677,598	1,770,510	165,144	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

March 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

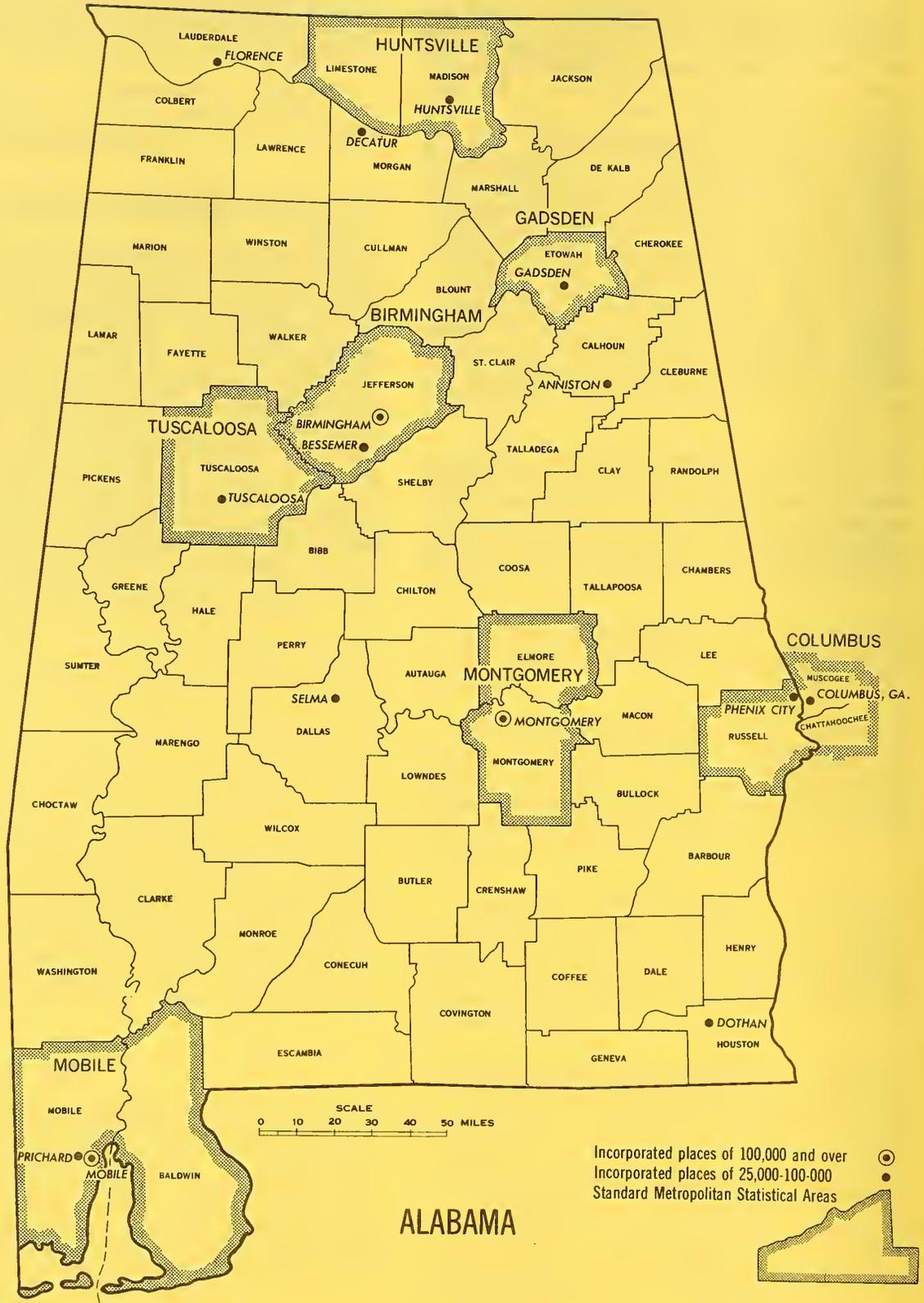
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



ALABAMA



Incorporated places of 100,000 and over 
 Incorporated places of 25,000-100,000 
 Standard Metropolitan Statistical Areas

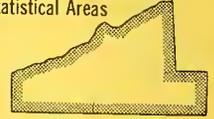


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALABAMA, TOTAL.....	4,100	1,261	244,241	1,157,450	197,800	391,110	840,336	2,342,124	152,130	229,830	1,770,510
STANDARD METROPOLITAN STATISTICAL AREAS											
Birmingham ⁴	674	279	60,145	360,185	43,074	86,062	240,639	674,562	36,326	63,495	587,027
Columbus ⁵	182	69	16,517	61,998	13,634	27,754	45,117	139,019	5,949	17,105	99,574
Portion in Alabama.....	43	10	812	2,448	702	1,454	2,088	5,513	572	767	2,892
Portion in Georgia.....	139	59	15,705	59,550	12,932	26,300	43,029	133,506	5,377	16,338	96,682
Gadsden ⁶	97	26	9,581	62,298	8,015	15,442	50,341	147,755	18,016	11,714	134,703
Huntsville ⁷	116	46	13,315	87,094	9,045	17,971	45,000	118,682	4,252	6,805	43,621
Mobile ⁸	343	96	18,122	99,284	14,663	29,934	75,514	224,414	18,056	19,001	198,691
Montgomery ⁹	206	75	7,651	30,720	5,492	11,396	19,563	62,240	3,649	7,262	46,410
Tuscaloosa ¹⁰	105	41	7,791	39,285	6,376	12,576	30,177	72,914	3,375	7,878	88,577
COUNTIES ¹											
Autauga.....	14	4	994	4,157	802	1,540	2,973	9,370	(Z)	1,078	3,451
Baldwin.....	82	19	2,147	6,882	1,887	3,849	5,534	14,250	1,209	1,653	9,715
Barbour.....	59	13	1,246	3,183	1,190	2,043	2,774	6,427	539	1,154	3,644
Bibb.....	28	8	1,193	3,009	1,113	1,923	2,630	4,466	(Z)	1,178	3,960
Blount.....	16	3	611	1,976	563	1,164	1,580	4,972	(Z)	608	3,571
Bullock.....	19	5	458	1,199	416	819	1,055	2,092	(Z)	256	739
Butler.....	57	10	1,797	5,331	1,656	3,336	4,663	8,378	727	1,680	5,839
Calhoun.....	113	41	9,103	40,376	7,977	15,411	33,417	82,645	2,840	10,612	72,001
Cherokee.....	16	3	466	1,364	418	767	996	2,375	(Z)	399	1,401
Chilton.....	41	1	715	2,268	620	1,228	1,943	3,390	(Z)	708	2,857
Choctaw.....	51	10	1,916	9,114	1,718	3,529	7,612	23,670	2,147	709	1,778
Clarke.....	83	12	2,583	7,730	2,196	4,451	6,444	12,574	1,544	2,474	10,601
Clay.....	28	5	773	2,657	691	1,307	1,954	4,380	(Z)	594	1,915
Cleburne.....	20	3	329	1,156	274	562	817	1,556	(Z)	462	2,993
Coffee.....	39	10	2,038	6,993	1,717	3,425	5,396	9,829	(Z)	2,112	9,849
Colbert.....	55	18	7,716	50,606	6,192	12,992	38,753	113,843	8,768	7,033	92,089
Conecuh.....	33	7	795	2,411	717	1,393	2,051	3,663	(Z)	794	2,053
Coosa.....	45	6	557	1,588	424	855	1,114	2,135	(Z)	483	1,604
Covington.....	62	18	4,364	13,439	3,837	7,458	11,195	23,451	1,116	4,776	18,156
Crenshaw.....	41	9	804	1,933	752	1,364	1,754	2,736	(Z)	512	1,289
Cullman.....	46	14	2,086	6,542	1,892	3,636	5,302	17,463	782	1,336	4,972
Dale.....	54	10	3,005	13,060	2,452	4,853	10,252	16,855	(Z)	1,824	8,983
Dallas.....	57	23	3,001	9,709	2,498	4,930	7,175	20,782	1,877	2,811	16,181
De Kalb.....	51	18	2,251	6,645	1,976	3,360	5,125	14,627	(Z)	1,780	7,766
Elmore.....	27	7	717	2,061	631	1,183	1,812	4,112	(Z)	635	4,037
Escambia.....	63	16	2,543	9,566	2,263	4,658	7,714	20,585	808	2,477	12,650
Etowah.....	97	26	9,581	62,298	8,015	15,442	50,341	147,755	18,016	11,714	134,703
Fayette.....	28	7	1,223	3,613	1,090	1,935	3,006	6,418	(Z)	1,027	4,368
Franklin.....	35	11	999	3,137	871	1,681	2,533	5,399	654	549	2,402
Geneva.....	32	7	1,757	4,690	1,705	3,205	4,407	10,902	530	1,428	6,824
Hale.....	26	6	692	1,478	601	876	1,094	2,637	(Z)	474	2,082
Henry.....	29	3	933	2,686	864	1,795	2,376	3,864	(D)	786	3,459
Houston.....	87	27	3,805	13,169	3,085	6,177	9,096	24,379	1,505	3,386	18,967
Jackson.....	57	16	2,414	7,142	2,224	4,166	6,005	17,324	1,414	1,901	7,021
Jefferson.....	674	279	60,145	360,185	43,074	86,062	240,639	674,562	36,326	63,495	587,027
Lamar.....	32	7	1,918	4,768	1,827	3,418	4,395	5,910	(Z)	1,425	3,632
Lauderdale.....	41	15	1,866	7,943	1,515	3,069	5,707	16,053	650	1,803	12,061
Lee.....	62	17	4,064	14,634	3,486	7,206	11,432	32,064	2,652	3,747	20,377
Limestone.....	18	6	592	1,547	535	1,034	1,311	2,849	(Z)	621	1,902
Lowndes.....	27	2	281	635	266	538	581	943	(Z)	283	560
Macon.....	25	5	404	978	371	689	861	2,132	(Z)	193	636
Madison.....	98	40	12,723	85,547	8,510	16,937	43,689	115,833	4,175	6,184	41,719
Marengo.....	52	14	2,102	8,565	1,839	3,603	6,680	18,388	1,057	1,738	11,860
Marion.....	38	13	2,713	8,177	2,452	4,686	6,803	32,327	862	1,659	13,764
Marshall.....	59	19	3,703	11,468	3,323	6,268	9,643	24,503	872	2,505	13,140
Mobile.....	261	77	15,975	92,402	12,776	26,085	69,980	210,164	16,847	17,348	188,976
Monroe.....	40	12	2,382	8,693	1,966	3,891	5,582	25,234	533	1,922	6,945
Montgomery.....	179	68	6,934	28,659	4,861	10,213	17,751	58,128	3,315	6,627	42,373
Morgan.....	75	37	6,045	31,753	4,338	9,121	19,829	97,223	3,953	5,234	55,311
Perry.....	20	6	831	2,064	734	1,303	1,756	3,581	(Z)	280	1,631

See footnotes at end of table.

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Pickens.....	36	12	1,491	5,237	1,337	2,544	4,286	12,155	521	1,585	10,116
Pike.....	62	13	1,480	4,046	1,331	2,536	3,405	7,599	(Z)	1,002	3,749
Randolph.....	35	9	1,959	5,589	1,867	3,681	5,280	1,334	1,857	4,575	4,575
Russell.....	43	10	812	2,448	702	1,454	2,088	5,513	572	767	2,892
Shelby.....	68	17	2,022	8,074	1,814	3,510	6,764	23,481	1,061	1,593	11,400
Sumter.....	24	6	649	1,889	548	1,195	1,481	3,360	(Z)	647	2,625
Talladega.....	84	38	8,138	33,789	7,353	14,023	27,177	76,423	5,877	7,125	50,484
Tallapoosa.....	72	25	7,371	26,430	6,681	13,358	21,642	41,314	4,784	7,104	34,043
Tuscaloosa.....	105	41	7,791	39,285	6,376	12,576	30,177	72,914	3,375	7,878	88,577
Walker.....	66	22	1,897	5,776	1,588	2,994	4,191	12,524	1,113	2,036	9,053
Wilcox.....	51	10	628	1,446	547	1,113	1,256	2,661	(Z)	553	1,748
Winston.....	35	11	1,244	3,897	1,050	2,087	3,132	6,463	503	923	3,713

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Birmingham Standard Metropolitan Statistical Area is coextensive with Jefferson County, Ala.⁵The Columbus Standard Metropolitan Statistical Area consists of Chatahoochee and Muscogee Counties, Ga., and Russell County, Ala.⁶The Gadsden Standard Metropolitan Statistical Area is coextensive with Etowah County, Ala.⁷The Huntsville Standard Metropolitan Statistical Area consists of Limestone and Madison Counties, Ala.⁸The Mobile Standard Metropolitan Statistical Area consists of Baldwin and Mobile Counties, Ala.⁹The Montgomery Standard Metropolitan Statistical Area consists of Elmore and Montgomery Counties, Ala.¹⁰The Tuscaloosa Standard Metropolitan Statistical Area is coextensive with Tuscaloosa County, Ala.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	4,100	1,261	244,241	1,157,450	197,800	391,110	840,336	2,342,124	152,130	229,830	1,770,510
20	Food and kindred products.....	532	215	22,049	86,927	13,530	27,280	43,999	201,265	12,744	19,878	151,756
201	Meat products.....	98	46	6,761	21,455	5,852	10,967	16,478	43,327	3,161	5,053	31,163
202	Dairies.....	64	31	3,750	17,916	1,224	2,619	4,959	38,385	3,182	3,469	31,400
203	Canned and frozen foods.....	20	15	1,180	3,660	1,004	1,932	2,665	10,361	650	848	6,585
204	Grain mill products.....	84	19	1,913	9,237	1,154	2,662	5,068	32,062	1,601	2,005	22,274
207	Candy and related products..	13	5	524	1,477	473	963	1,271	2,220	(Z)	482	1,867
209	Miscellaneous foods and kindred products.....	97	24	1,720	7,463	1,066	2,323	3,472	17,044	959	1,856	15,231
22	Textile mill products.....	131	111	35,352	125,095	32,865	65,366	108,279	225,749	17,584	39,511	178,155
221	Weaving mills, cotton.....	30	28	17,484	61,229	16,433	32,924	55,136	108,476	7,168	22,743	88,505
224	Narrow fabric mills.....	11	10	1,003	3,850	891	1,836	3,010	7,121	575	631	3,790
225	Knitting mills.....	33	22	5,086	16,996	4,750	9,046	14,025	26,417	1,724	5,035	25,593
226	Textile finishing, except wool.....	5	4	1,595	7,044	1,378	3,160	5,359	14,441	832	1,795	11,139
228	Yarn and thread mills.....	31	30	5,787	19,885	5,492	10,786	17,727	36,212	5,926	6,531	30,454
229	Miscellaneous textile goods..	13	9	1,854	6,830	1,570	3,012	5,455	11,481	(Z)	1,723	11,488
23	Apparel and related products..	185	129	30,945	86,411	28,859	53,756	76,144	155,209	7,778	21,995	89,821
232	Men's and boys' furnishings..	72	65	16,367	44,440	15,280	28,480	39,359	70,796	1,780	13,066	42,810
233	Women's and misses' outerwear	26	21	2,439	6,194	2,182	4,071	5,431	10,151	(Z)	961	3,494
234	Women's and children's underwear.....	22	21	7,512	22,330	7,100	13,322	19,856	51,404	646	3,757	20,264
236	Children's outerwear.....	11	6	1,313	4,168	1,267	2,245	3,806	6,436	(Z)	831	4,758
239	Fabricated textiles, n.e.c....	42	9	1,263	3,886	1,081	2,243	3,043	6,420	4,584	1,492	10,819
24	Lumber and wood products.....	1,527	236	20,773	56,068	18,407	36,384	46,769	101,613	11,028	23,773	77,894
241	Logging camps and contractors	815	18	3,793	7,178	3,350	6,376	6,367	14,136	2,891	4,060	9,839
242	Sawmills and planing mills...	559	164	12,543	34,013	11,226	22,184	28,883	57,645	6,771	15,435	49,271
243	Millwork and related products	91	35	2,823	9,690	2,404	4,897	7,378	19,512	849	2,658	11,994
244	Wooden containers.....	21	8	719	2,190	662	1,345	1,787	3,756	(Z)	697	2,708
249	Miscellaneous wood products..	41	11	890	2,997	765	1,609	2,354	5,947	(Z)	923	4,082
25	Furniture and fixtures.....	125	37	3,634	12,859	3,134	6,269	9,916	24,356	1,130	2,936	15,329
251	Household furniture.....	81	28	3,038	10,662	2,651	5,248	8,309	20,216	922	2,667	13,797
254	Partitions and fixtures.....	22	5	262	1,136	218	475	871	2,071	(Z)	135	692

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufac- ture (\$1,000)	Capital expend- itures, new ¹ (\$1,000)	All employ- ees, number	Value added by manufac- ture (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
26	Paper and allied products.....	42	35	12,132	76,239	9,843	20,994	59,986	165,421	16,108	9,823	112,347
262	Paper mills, except building.	5	4	5,400	39,124	4,536	9,579	31,261	92,035	11,209	5,170	71,462
264	Paper and paperboard products	14	12	3,390	16,407	2,537	5,254	12,756	20,742	752	2,688	23,127
265	Paperboard containers and boxes.....	15	12	926	3,521	777	1,595	2,631	7,482	597	401	1,617
27	Printing and publishing.....	310	45	5,432	27,220	3,461	6,962	17,636	54,717	2,389	5,165	44,632
271	Newspapers.....	105	15	2,950	15,078	1,517	2,987	8,527	31,430	977	3,046	26,999
273	Books.....	14	6	301	1,425	221	450	958	2,137	(2)	111	738
275	Commercial printing.....	147	15	1,605	8,077	1,340	2,743	6,496	13,358	998	1,478	10,498
28	Chemicals and allied products..	144	61	8,629	49,543	6,117	12,468	31,450	231,736	13,244	8,191	139,730
281	Basic chemicals.....	30	17	2,794	17,772	2,009	3,917	11,672	95,406	6,446	2,745	69,060
286	Gum and wood chemicals.....	12	4	340	1,755	227	469	1,043	4,784	(2)	439	4,555
287	Agricultural chemicals.....	51	24	1,476	6,098	1,116	2,353	4,131	18,339	1,559	1,077	7,019
289	Miscellaneous chemical products.....	16	6	724	4,428	557	1,084	3,067	29,943	563	903	15,533
29	Petroleum and coal products....	33	10	862	4,907	652	1,358	3,407	15,150	674	764	9,491
30	Rubber and plastics products, n.e.c.....	25	11	6,313	41,583	5,389	11,207	34,064	112,859	6,132	5,799	96,790
32	Stone, clay and glass products.	279	96	8,381	36,691	6,475	13,182	27,245	97,943	6,567	8,250	84,371
327	Concrete and plaster products	195	45	3,162	12,314	2,356	4,790	8,154	32,379	3,135	2,658	21,449
328	Cut stone and stone products.	15	4	372	1,455	317	681	1,255	2,089	530	339	2,397
329	Nonmetallic mineral products.	29	16	860	3,951	659	1,347	2,928	9,917	(2)	857	10,315
33	Primary metal industries.....	91	72	39,850	263,522	33,328	65,108	209,244	509,274	42,779	38,024	469,497
331	Steel rolling and finishing..	16	15	21,774	155,927	17,716	33,187	121,849	515,500	29,968	20,874	301,657
332	Iron and steel foundries.....	48	41	11,484	60,861	10,210	20,397	50,431	100,742	4,653	11,815	86,842
34	Fabricated metal products.....	246	89	13,513	70,075	10,904	21,284	50,406	133,728	4,759	12,358	107,671
344	Structural metal products.....	156	49	6,802	37,039	5,194	10,565	25,975	67,379	2,209	6,608	56,653
345	Screw machine products.....	8	5	879	5,402	736	1,479	4,063	9,296	(2)	785	8,461
346	Metal stampings.....	9	4	441	1,804	335	543	1,007	4,312	(2)	513	5,050
347	Metal services, n.e.c.....	24	4	261	1,344	228	460	967	2,147	(2)	173	1,348
348	Fabricated wire products, n.e.c.....	17	8	497	2,319	411	876	1,716	7,371	(2)	272	3,730
349	Fabricated metal products, n.e.c.....	17	11	3,110	16,315	2,661	4,699	12,055	32,354	924	2,693	23,899
35	Machinery, except electrical...	213	44	5,301	27,762	4,115	8,457	18,902	55,546	2,325	4,387	28,885
352	Farm machinery and equipment.	19	9	898	3,881	718	1,393	2,301	9,002	(2)	587	4,099
353	Construction and like equipment.....	17	6	760	4,106	584	1,294	2,802	8,453	(2)	1,338	6,147
354	Metalworking machinery.....	20	4	338	2,020	259	531	1,463	2,607	(2)	169	1,267
355	Special industry machinery...	17	9	1,211	6,442	922	1,835	4,109	13,291	(2)	1,018	7,358
359	Miscellaneous machinery.....	102	5	734	3,743	604	1,209	2,926	7,416	(2)	643	5,161
36	Electrical machinery.....	36	15	3,800	19,528	2,963	6,218	13,307	37,553	1,815	3,766	33,797
37	Transportation equipment.....	63	28	15,814	93,634	11,762	23,672	62,473	142,593	3,370	17,229	104,147
371	Motor vehicles and equipment.	27	12	1,763	8,696	1,424	3,168	6,329	17,290	755	1,779	13,489
373	Ship and boat building.....	24	6	2,946	16,525	2,738	5,085	14,800	21,269	868	3,575	28,976
39	Miscellaneous manufacturing, including ordnance ³	89	28	6,647	43,855	4,434	8,234	22,547	63,790	1,390	2,247	17,725
--	Administrative and auxiliary ⁴ ..	-	-	3,152	30,450	-	-	-	-	-	4,472	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BIRMINGHAM SMSA (Coextensive with Jefferson County, Ala.)												
	All industries, total ²	674	279	60,145	360,185	43,074	86,062	240,639	674,562	36,326	63,495	587,027
20	Food and kindred products.....	89	50	5,789	26,022	3,067	6,466	12,167	58,911	4,358	6,392	50,610
201	Meat products.....	12	10	928	3,875	773	1,527	2,847	7,665	715	1,408	9,513
202	Dairies.....	17	7	1,153	5,279	361	712	1,368	9,991	1,114	1,135	9,340
205	Bakery products.....	18	12	1,634	6,864	879	1,832	3,482	11,634	1,077	1,753	11,887
208	Beverages.....	12	7	446	1,587	166	332	540	8,296	(Z)	500	4,242
209	Miscellaneous foods and kindred products.....	21	9	684	3,636	329	675	1,106	8,596	(Z)	536	5,813
23	Apparel and related products..	17	6	1,097	3,199	964	1,685	2,384	5,970	(Z)	1,036	5,309
24	Lumber and wood products.....	42	13	1,014	3,483	875	1,747	2,834	5,256	616	1,210	4,750
242	Sawmills and planing mills..	21	10	767	2,531	686	1,355	2,209	3,830	(Z)	718	2,793
25	Furniture and fixtures.....	38	12	1,189	4,976	969	1,905	3,543	8,761	(Z)	863	5,783
251	Household furniture.....	22	8	879	3,777	721	1,389	2,701	6,635	(Z)	752	4,989
26	Paper and allied products.....	8	7	1,202	3,705	533	1,127	2,104	7,341	(Z)	517	2,917
27	Printing and publishing.....	83	19	2,147	11,644	1,497	2,953	8,389	22,068	825	2,233	22,058
275	Commercial printing.....	45	10	1,002	5,342	851	1,759	4,444	8,644	(Z)	895	6,733
28	Chemicals and allied products.	34	12	985	6,195	672	1,360	3,906	18,339	1,295	1,437	17,670
281	Basic chemicals.....	8	4	270	1,802	178	374	1,097	8,050	864	625	8,509
32	Stone, clay and glass products	58	32	2,868	12,914	2,001	4,066	9,104	35,725	1,280	3,022	36,046
327	Concrete and plaster products.....	25	9	532	2,201	390	795	1,267	5,570	(Z)	687	6,083
329	Nonmetallic mineral products	17	10	587	2,838	429	884	2,039	8,248	(Z)	553	6,980
33	Primary metal industries.....	42	36	22,663	159,904	18,365	36,137	123,558	302,344	20,784	22,067	291,815
332	Iron and steel foundries....	20	19	5,144	32,284	4,331	9,626	24,979	51,539	3,211	5,264	48,890
34	Fabricated metal products.....	115	50	8,305	46,479	6,429	12,829	32,680	88,772	3,292	7,511	68,641
344	Structural metal products...	70	29	4,751	27,388	3,508	7,145	18,906	51,131	1,714	4,490	40,657
349	Fabricated metal products, n.e.c.....	10	6	1,614	9,324	1,313	2,560	6,703	18,820	560	1,522	13,616
35	Machinery, except electrical..	68	15	1,547	8,813	1,191	2,425	6,172	17,534	679	2,086	13,369
359	Miscellaneous machinery.....	24	5	425	2,353	344	676	1,766	5,092	(Z)	344	2,955
36	Electrical machinery.....	14	6	768	4,904	513	1,079	2,786	9,809	(Z)	755	6,793
37	Transportation equipment.....	17	8	7,382	46,141	4,770	9,760	26,043	77,534	1,427	10,127	53,185
39	Miscellaneous manufacturing...	26	7	543	2,158	445	878	1,540	3,530	(Z)	414	2,627
--	Administrative and auxiliary ³ .	-	-	1,664	14,926	-	-	-	-	-	3,045	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MCC63(P)-S2

Area series

ALASKA

preliminary report

Value added by manufacturing in 1963 in the State of Alaska amounted to \$89 million, a decrease of 2 percent from 1962 and an increase of 38 percent from 1958. Of this total, \$43 million was contributed by the food and kindred products industries, the leading industry group in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	295	77	6,011	39,503	4,845	9,535	29,954	89,311	14,580	125	138
1962 ³	(NA)	(NA)	5,417	34,917	4,416	8,482	27,033	91,508	6,394	113	142
1961 ³	(NA)	(NA)	5,282	32,659	4,295	8,402	25,224	89,244	(5,344)	110	138
1960 ³	(NA)	(NA)	5,608	35,314	4,527	9,108	27,895	71,870	3,417	117	111
1959 ³	(NA)	(NA)	4,482	25,643	3,601	6,954	19,996	63,475	(D)	93	98
1958.....	245	69	4,807	25,716	3,931	7,258	19,850	64,595	3,264	100	100

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties	1963									1958	
	Establishments, number		All employees ¹		Production workers			Value added by manufacture	Capital expenditures, new ²	All employ-ees, number ¹	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALASKA, TOTAL.....	295	77	6,011	39,503	4,845	9,535	29,954	89,311	14,580	4,807	64,595
STANDARD METROPOLITAN STATISTICAL AREAS (None in this State)											
COUNTIES (Not applicable to this State)											

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)²Includes expenditures for plants under construction but not in operation.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	295	77	6,011	39,503	4,845	9,535	29,954	89,311	14,580	4,807	64,595
20	Food and kindred products.....	112	48	2,906	16,179	2,466	4,842	12,855	43,194	1,674	3,046	37,542
203	Canned and frozen foods.....	83	40	2,346	12,781	2,143	4,144	10,981	37,108	1,384	2,535	31,396
24	Lumber and wood products.....	89	17	1,111	6,410	952	1,808	5,402	9,592	1,496	617	4,233
27	Printing and publishing.....	30	3	371	2,314	198	389	1,231	3,865	(Z)	322	3,589
271	Newspapers.....	16	3	299	1,917	155	302	975	3,121	(Z)	252	2,838
--	Administrative and auxiliary ³ ...	-	-	22	234	-	-	-	-	-	(D)	-

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

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1963 CENSUS OF MANUFACTURES



MC63(P)-S3

Area series

ARIZONA

preliminary report

Value added by manufacturing in 1963 in the State of Arizona amounted to \$617 million, an increase of 23 percent from 1962 and 71 percent from 1958. Of this total, \$94 million was contributed by the primary metal industries and \$87 million by the electrical machinery industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	1,512	334	r 57,339	r 349,124	38,687	77,855	212,187	617,413	49,154	140	171
1962.....	(NA)	(NA)	r 50,299	r 304,934	34,946	71,474	194,283	501,924	39,194	126	139
1961.....	(NA)	(NA)	r 48,558	r 285,658	34,071	69,260	184,084	473,415	67,229	121	131
1960.....	(NA)	(NA)	r 47,536	r 268,641	34,419	69,788	176,296	475,050	34,684	118	132
1959.....	(NA)	(NA)	r 44,720	r 244,643	33,523	68,296	169,545	402,101	33,850	111	112
1958.....	1,150	257	r 40,563	r 213,289	29,980	61,387	148,325	360,173	27,698	100	100

(NA) Not available. r Revised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

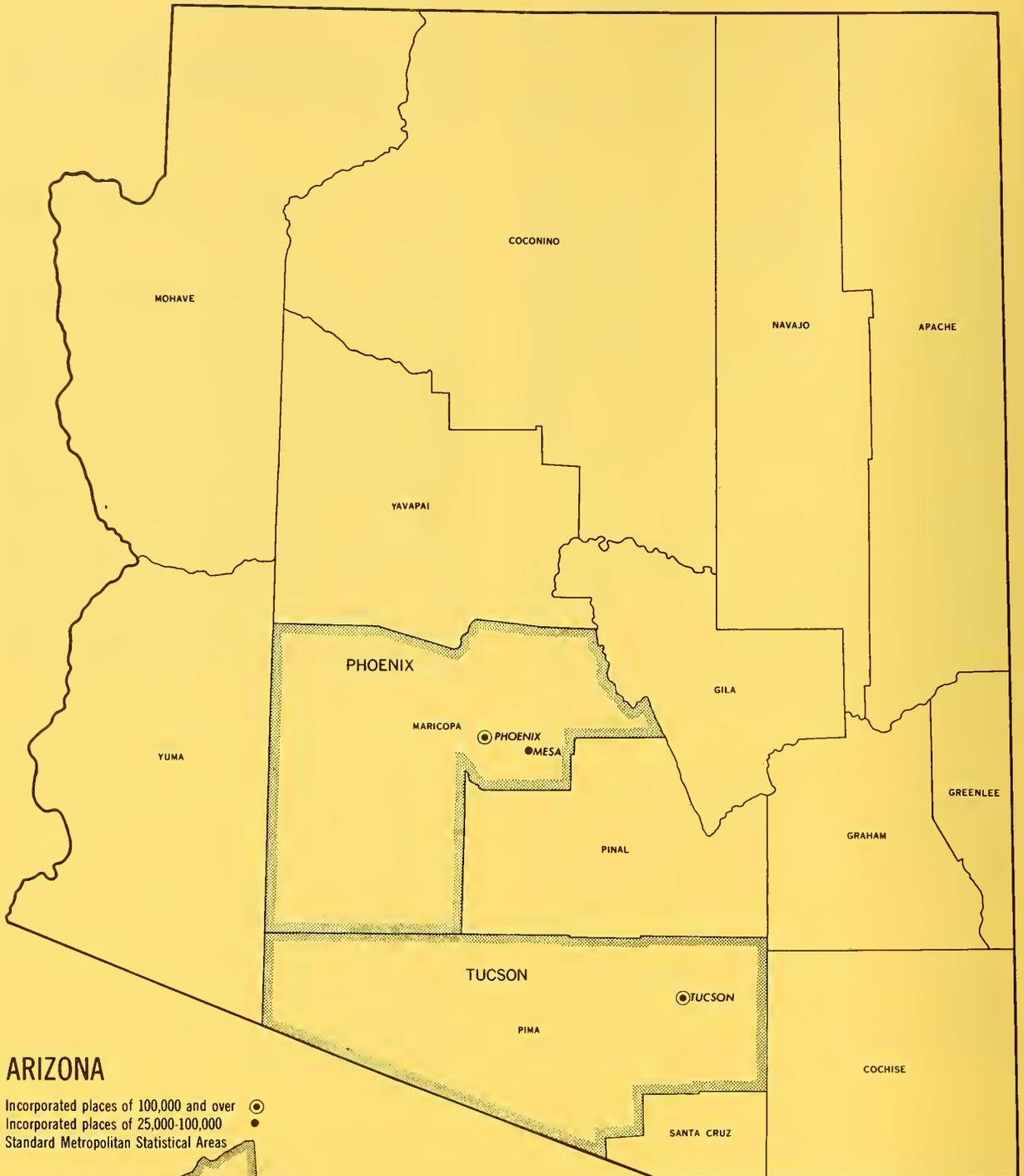
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



ARIZONA

Incorporated places of 100,000 and over 
Incorporated places of 25,000-100,000 
Standard Metropolitan Statistical Areas

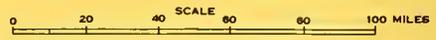
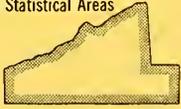


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ARIZONA, TOTAL.....	1,512	334	57,339	349,124	38,687	77,855	212,187	617,413	49,154	^r 40,563	360,173
STANDARD METROPOLITAN STATISTICAL AREAS											
Phoenix ⁴	967	228	41,127	254,497	26,254	52,993	144,334	423,600	37,822	^r 25,794	227,710
Tucson ⁵	240	47	8,283	50,844	5,978	11,449	34,615	84,764	3,222	8,152	83,898
COUNTIES ¹											
Cocconino.....	33	8	1,053	5,499	875	1,931	4,540	9,085	1,156	1,037	4,671
Gila.....	18	7	1,394	8,333	1,175	2,283	6,425	24,254	946	1,009	5,288
Maricopa.....	967	228	41,127	254,497	26,254	52,993	144,334	423,600	37,822	^r 25,794	227,710
Navajo.....	43	9	992	5,162	844	1,645	4,195	11,678	1,477	599	3,701
Pima.....	240	47	8,283	50,844	5,978	11,449	34,615	84,764	3,222	8,152	83,898
Pinal.....	41	6	741	4,364	634	1,388	3,134	19,070	582	440	3,782
Yavapai.....	39	7	528	2,436	441	875	1,999	7,201	585	565	3,007
Yuma.....	33	7	453	2,134	341	682	1,323	5,365	(Z)	367	3,410

(Z) Less than \$500 thousand. ^rRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Phoenix Standard Metropolitan Statistical Area is coextensive with Maricopa County, Ariz.⁵The Tucson Standard Metropolitan Statistical Area is coextensive with Pima County, Ariz.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	1,512	334	57,339	349,124	38,687	77,855	212,187	617,413	49,154	^r 40,563	^r 360,173
20	Food and kindred products.....	228	75	6,527	34,198	3,571	7,749	17,257	76,196	6,922	5,660	56,955
201	Meat products.....	27	8	804	4,814	638	1,402	3,802	8,184	(Z)	746	6,544
202	Dairies.....	33	15	1,740	9,057	1,716	1,438	3,709	16,215	1,053	1,309	17,333
203	Canned and frozen foods.....	14	4	277	1,144	225	469	853	2,081	(Z)	227	527
204	Grain mill products.....	16	8	481	2,640	272	714	1,213	8,487	1,611	443	3,708
208	Beverages.....	37	16	950	5,332	390	879	1,830	11,754	2,058	705	7,890
209	Miscellaneous foods and kindred products.....	57	15	1,034	4,881	719	1,607	2,992	15,595	1,108	990	9,352
23	Apparel and related products....	75	19	2,650	8,378	2,350	4,213	6,513	12,499	(Z)	1,682	7,432
233	Women's and misses' outerwear..	17	8	463	1,331	425	728	1,090	1,790	(Z)	563	2,307
24	Lumber and wood products.....	129	29	3,136	14,926	2,707	5,481	12,433	24,295	2,607	2,831	15,378
241	Logging camps and contractors..	41	4	316	1,080	260	504	957	1,845	501	136	907
243	Millwork and related products..	49	9	638	3,267	524	996	2,583	5,237	(Z)	521	3,490
25	Furniture and fixtures.....	77	16	945	4,177	710	1,409	3,211	6,953	(Z)	696	4,109
251	Household furniture.....	51	9	640	2,539	508	998	1,878	4,430	(Z)	456	2,714
27	Printing and publishing.....	252	32	4,122	21,295	2,224	4,294	12,449	44,412	1,696	2,877	26,057
271	Newspapers.....	59	15	2,631	13,109	1,130	2,122	6,642	30,823	923	1,944	19,084
275	Commercial printing.....	125	8	943	5,424	734	1,504	4,051	8,961	509	546	3,784
28	Chemicals and allied products..	61	11	898	5,652	499	1,050	2,496	14,915	2,072	701	8,774
32	Stone, clay and glass products..	148	33	3,232	18,149	2,416	4,738	12,886	44,392	4,208	2,096	25,013
327	Concrete and plaster products..	103	26	2,503	13,965	1,831	3,563	9,667	31,010	3,441	1,561	17,550
33	Primary metal industries.....	29	13	4,484	29,462	3,774	7,534	22,454	94,026	4,330	4,976	41,317
34	Fabricated metal products.....	112	22	2,547	13,577	1,937	3,735	9,721	22,896	891	1,720	12,700
344	Structural metal products.....	64	15	2,047	11,170	1,525	2,933	7,900	18,778	550	1,464	11,068
347	Metal services, n.e.c.....	20	5	269	1,443	220	395	1,117	2,065	(Z)	164	930

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
35	Machinery, except electrical....	151	27	5,869	38,049	3,023	5,855	15,988	51,680	3,550	^r 2,711	18,913
354	Metalworking machinery.....	26	3	234	1,433	194	385	1,132	2,288	(Z)	366	3,495
358	Service industry machines.....	10	4	1,300	7,415	971	1,730	5,254	14,155	(Z)	1,097	7,577
359	Miscellaneous machinery.....	81	13	1,021	5,885	850	1,788	4,653	8,377	507	515	4,105
36	Electrical machinery.....	52	14	9,123	55,877	5,743	11,769	28,727	86,533	16,648	2,362	19,907
38	Instruments and related products	18	5	1,540	12,233	697	1,819	4,478	27,430	819	400	5,088
--	Administrative and auxiliary ³ ...	-	-	593	5,082	-	-	-	-	-	281	-

- Represents zero. n.e.c. Not elsewhere classified. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^rRevised.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PHOENIX SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	967	228	41,127	254,497	26,254	52,993	144,334	423,600	37,822	^r 25,794	227,710
20	Food and kindred products.....	131	51	5,076	27,394	2,768	6,014	14,012	59,181	5,052	4,345	43,222
201	Meat products.....	15	6	686	4,296	545	1,202	3,383	6,900	(Z)	681	5,776
202	Dairies.....	23	11	1,414	7,517	581	1,169	3,054	13,856	828	1,074	12,886
205	Bakery products.....	24	6	958	5,042	451	912	2,224	11,430	560	838	8,899
209	Miscellaneous foods and kindred products.....	31	10	764	3,665	522	1,162	2,267	11,602	953	733	6,204
23	Apparel and related products...	51	11	2,085	6,813	1,835	3,307	5,202	10,417	(Z)	1,325	5,602
25	Furniture and fixtures.....	58	15	830	3,738	613	1,224	2,853	6,134	(Z)	612	3,726
27	Printing and publishing.....	161	24	2,803	15,410	1,550	3,009	8,631	30,162	1,149	1,898	18,033
32	Stone, clay and glass products.	68	18	1,919	11,352	1,385	2,683	7,649	24,542	2,380	1,198	13,952
327	Concrete and plaster products	47	16	1,672	10,068	1,201	2,321	6,794	22,335	2,231	1,013	12,784
34	Fabricated metal products.....	89	18	1,930	10,872	1,380	2,638	7,342	19,034	590	1,406	11,119
344	Structural metal products....	46	12	1,505	8,857	1,025	1,933	5,853	15,182	(Z)	1,176	9,647
35	Machinery, except electrical....	114	24	5,654	36,950	2,847	5,480	15,140	49,772	3,437	^r 2,577	17,746
358	Service industry machines....	9	4	1,296	7,402	968	1,724	5,245	14,126	3,327	1,097	7,577
--	Administrative and auxiliary ³ ...	-	-	475	4,045	-	-	-	-	-	231	-

- Represents zero. (Z) Less than \$500 thousand. ^rRevised.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

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1963 CENSUS OF MANUFACTURES



MC63(P)-S4

Area series

ARKANSAS

preliminary report

Value added by manufacturing in 1963 in the State of Arkansas amounted to \$959 million, an increase of 62 percent from 1958. Of this total, \$150 million was contributed by the food and kindred products industries and \$120 million by the lumber and wood products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	2,838	843	113,694	437,942	95,794	192,315	332,568	958,687	72,210	128	162
1958.....	2,571	666	88,655	292,731	74,429	144,699	220,862	591,745	48,227	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

September 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

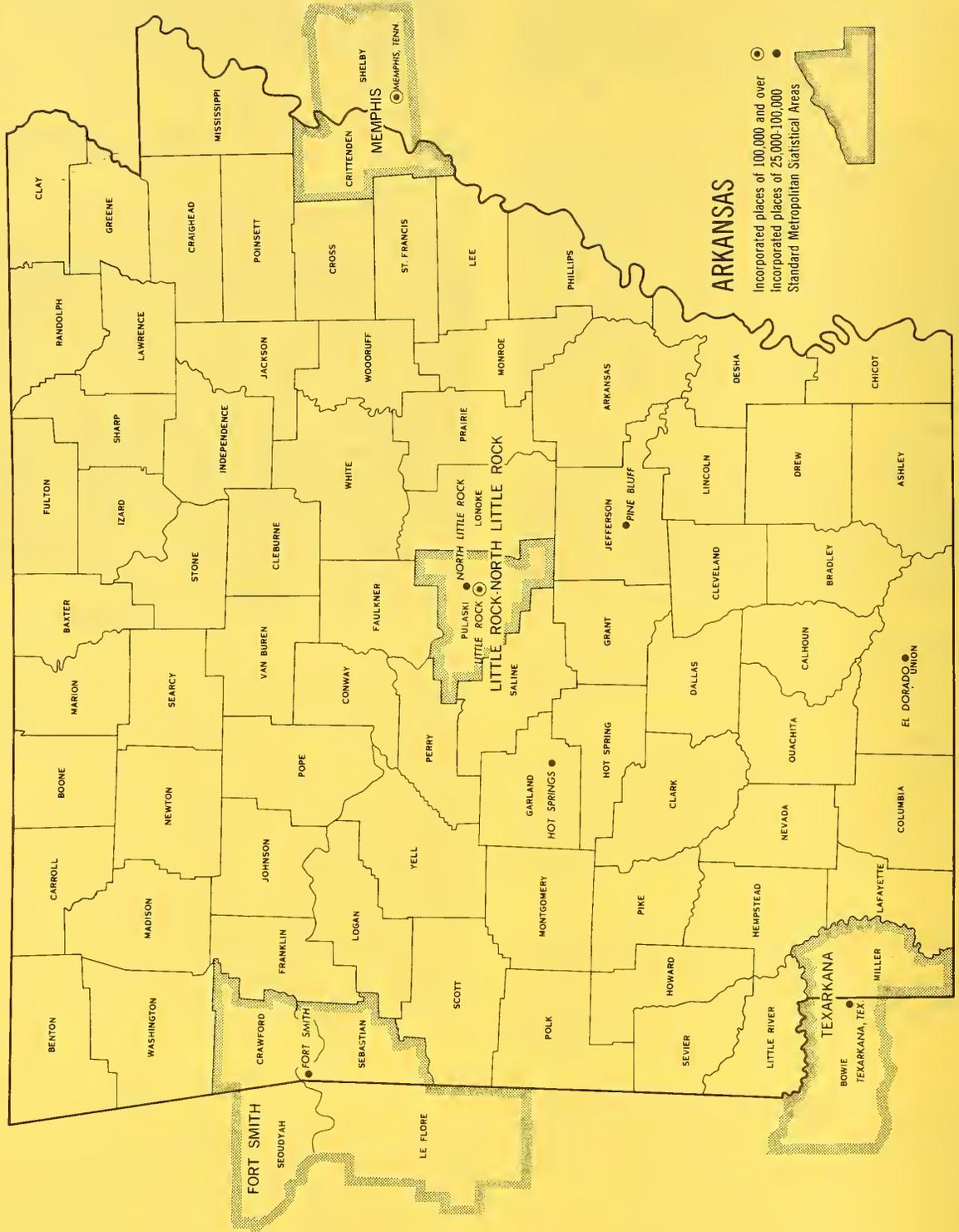


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ARKANSAS, TOTAL.....	2,838	843	113,694	437,942	95,794	192,315	332,568	938,687	72,210	88,655	591,745
STANDARD METROPOLITAN STATISTICAL AREAS											
Fort Smith ⁴	232	90	12,109	46,896	10,068	19,348	34,226	94,231	4,533	9,710	60,392
Portion in Arkansas.....	195	85	11,695	45,775	9,721	18,682	33,328	91,090	4,345	9,008	57,216
Portion in Oklahoma.....	37	5	414	1,121	347	666	898	3,141	(Z)	702	3,176
Little Rock-North Little Rock ⁵	319	127	17,020	70,316	13,032	26,208	46,994	149,157	7,599	13,415	102,852
Memphis ⁶	789	339	47,434	239,897	34,284	69,750	153,422	568,804	28,089	41,850	396,948
Portion in Arkansas.....	31	14	938	3,086	804	1,756	2,441	7,159	(Z)	622	3,296
Portion in Tennessee.....	758	325	46,496	236,811	33,480	67,994	150,981	561,645	27,833	41,228	393,652
Pine Bluff ⁷	74	29	5,004	24,009	4,147	8,745	18,101	74,016	4,433	3,927	29,733
Texarkana ⁸	91	29	5,647	25,875	4,633	8,969	20,087	44,240	793	3,034	18,540
Portion in Texas.....	65	24	5,399	24,918	4,433	8,541	19,398	42,522	664	2,727	16,504
Portion in Arkansas.....	26	5	248	957	200	428	689	1,718	(Z)	307	2,036
COUNTIES ¹											
Arkansas.....	33	14	1,612	6,083	1,268	2,794	4,289	13,396	1,127	840	6,726
Ashley.....	53	19	3,178	14,588	2,778	5,520	11,695	37,364	12,822	2,801	24,950
Benton.....	83	36	3,567	12,915	3,027	5,983	9,567	27,855	1,991	2,466	16,530
Boone.....	30	12	1,219	4,251	1,000	1,931	3,108	6,924	(Z)	970	3,066
Bradley.....	48	12	1,788	6,948	1,619	3,876	6,144	14,258	665	1,738	6,867
Chicot.....	21	8	641	1,953	592	1,163	1,742	3,413	(Z)	292	1,114
Clark.....	70	12	1,729	7,120	1,544	3,025	5,996	12,465	1,191	1,707	14,337
Clay.....	24	3	745	1,959	704	1,200	1,797	3,761	(Z)	448	2,088
Cleburne.....	14	3	284	714	257	482	598	1,502	(Z)	133	366
Columbia.....	67	19	1,547	5,794	1,284	2,752	4,274	11,845	1,349	1,431	7,008
Conway.....	23	4	1,119	3,374	1,004	1,868	2,807	4,615	(Z)	917	3,709
Craighead.....	58	23	3,145	12,225	2,539	5,164	8,944	26,758	1,194	2,250	17,927
Crawford.....	23	8	734	2,190	680	1,189	1,796	4,046	(Z)	868	3,705
Crittenden.....	31	14	938	3,086	804	1,756	2,441	7,159	(Z)	622	3,296
Cross.....	13	4	557	1,685	500	993	1,361	2,667	(Z)	208	1,176
Dallas.....	53	8	1,172	3,586	1,084	2,054	2,903	5,424	2,009	1,043	3,630
Drew.....	36	11	1,028	3,190	856	1,712	2,435	6,470	1,266	940	5,024
Faulkner.....	34	13	1,806	6,796	1,524	3,013	5,062	12,915	(Z)	1,186	7,492
Franklin.....	17	3	290	704	252	396	549	1,498	(Z)	129	819
Garland.....	73	14	2,327	9,203	1,866	4,010	6,048	16,950	616	1,557	7,926
Grant.....	45	7	699	2,134	638	1,276	1,864	2,969	(Z)	832	3,002
Greene.....	25	6	1,464	4,851	1,256	2,459	3,864	11,054	761	1,350	7,991
Hempstead.....	35	11	941	3,109	826	1,680	2,508	5,287	(Z)	1,172	5,160
Hot Spring.....	57	13	2,240	11,839	1,933	3,912	9,474	24,415	956	2,400	25,816
Howard.....	25	11	1,395	5,404	1,262	2,835	4,645	9,670	571	1,138	9,238
Independence.....	54	10	1,502	4,896	1,311	2,500	3,818	10,320	672	1,203	5,881
Jackson.....	23	10	1,083	4,225	922	1,840	3,368	8,139	(Z)	811	6,113
Jefferson.....	74	29	5,004	24,009	4,147	8,745	18,101	74,016	4,433	3,927	29,733
Johnson.....	31	9	675	1,950	576	1,094	1,444	3,044	(Z)	554	2,629
Lafayette.....	15	4	337	1,123	291	609	936	2,296	(Z)	327	1,617
Lawrence.....	26	4	468	1,457	416	760	1,209	2,596	(Z)	565	2,011
Lee.....	9	1	277	1,073	258	544	946	2,323	(Z)	153	459
Little River.....	23	3	338	1,422	211	420	822	5,810	(D)	185	662
Logan.....	23	7	581	1,819	525	1,014	1,509	5,805	(Z)	382	2,431
Mississippi.....	56	27	3,759	12,977	3,108	6,141	9,604	22,672	1,631	1,933	10,317
Monroe.....	17	6	991	3,037	934	1,911	2,712	7,677	(Z)	477	2,585
Montgomery.....	25	6	360	874	341	592	822	1,665	(Z)	264	703
Nevada.....	26	4	434	1,309	382	770	1,052	2,543	(Z)	323	1,600
Ouachita.....	111	25	3,500	16,293	2,936	5,942	13,047	31,724	4,917	3,194	27,597
Phillips.....	31	12	2,429	10,122	2,129	4,502	8,197	23,514	851	2,154	14,124
Pike.....	39	4	486	1,361	459	914	1,237	2,643	(Z)	356	1,291
Polk.....	33	11	937	2,316	889	1,645	2,071	3,423	(Z)	1,118	2,830
Pope.....	56	14	1,871	5,856	1,610	3,312	4,598	12,729	(Z)	1,252	6,230
Prairie.....	13	3	279	723	247	475	662	2,007	(Z)	122	234
Pulaski.....	319	127	17,020	70,316	13,032	26,208	46,994	149,157	7,599	13,415	102,852
Randolph.....	20	4	639	1,750	614	1,095	1,645	4,768	(Z)	633	2,867
St. Francis.....	26	9	1,270	4,276	1,052	2,093	3,169	9,859	598	743	4,432
Saline.....	31	9	3,322	17,474	2,761	5,519	13,341	44,632	1,435	3,045	33,969
Scott.....	14	7	674	1,865	585	1,016	1,416	5,472	(Z)	387	1,390
Sebastian.....	172	77	10,961	43,585	9,041	17,493	31,532	87,044	4,184	8,140	53,511
Union.....	99	30	4,067	21,949	3,235	6,874	16,112	59,764	5,366	4,038	40,597
Washington.....	85	33	4,379	15,429	3,721	7,370	11,827	42,253	3,401	3,014	15,780
White.....	54	10	1,568	5,116	1,373	2,669	4,090	14,716	862	992	5,642
Yell.....	20	7	479	1,269	441	872	1,175	1,822	(Z)	581	3,195

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The Fort Smith Standard Metropolitan Statistical Area consists of Crawford and Sebastian Counties, Ark., and Leflore and Sequoyah Counties, Okla.

⁵The Little Rock-North Little Rock Standard Metropolitan Statistical Area is coextensive with Pulaski County, Ark.

⁶The Memphis Standard Metropolitan Statistical Area consists of Shelby County, Tennessee and Crittenden County, Ark.

⁷The Pine Bluff Standard Metropolitan Statistical Area consists of Jefferson County, Ark.

⁸The Texarkana Standard Metropolitan Statistical Area consists of Bowie County, Texas and Miller County, Arkansas.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,838	843	113,694	437,942	95,794	192,315	332,568	958,687	72,210	88,655	591,745
20	Food and kindred products.....	452	191	17,821	63,295	13,172	26,691	39,675	149,642	11,120	15,119	101,022
201	Meat products.....	95	42	6,212	18,072	5,611	11,015	15,113	32,585	2,982	4,093	20,790
202	Dairies.....	48	22	1,417	6,691	657	1,407	2,778	17,136	1,206	1,595	15,653
203	Canned and frozen foods.....	32	19	2,847	8,479	2,629	4,697	6,919	18,945	1,299	3,078	10,611
204	Grain mill products.....	67	29	2,112	8,161	1,406	3,221	4,744	30,278	1,201	1,431	17,849
208	Beverages.....	77	32	1,770	6,973	664	1,420	1,968	15,915	1,986	1,549	10,831
209	Miscellaneous foods and kindred products.....	91	30	1,821	6,907	1,273	2,987	4,463	18,931	1,616	1,620	10,743
22	Textile mill products.....	20	15	2,290	8,415	2,070	4,230	7,044	17,483	2,172	2,081	10,985
23	Apparel and related products....	70	51	10,661	27,889	10,018	18,239	24,304	43,998	792	7,715	24,454
232	Men's and boys' furnishings....	29	27	5,705	14,458	5,494	9,860	12,912	22,574	(Z)	5,277	16,795
233	Women's and misses' outerwear..	17	14	3,260	9,318	2,887	5,269	7,573	12,748	(Z)	1,777	5,569
24	Lumber and wood products.....	1,198	216	21,311	66,332	19,314	40,404	57,211	119,687	11,151	21,260	78,603
241	Logging camps and contractors..	553	34	3,763	10,032	3,373	6,690	8,621	26,074	3,326	2,335	6,798
242	Sawmills and planing mills....	555	132	13,170	41,994	11,982	25,485	36,550	68,132	5,005	14,748	54,041
243	Millwork and related products..	35	16	1,122	3,696	985	2,135	3,095	6,603	2,007	1,120	4,774
244	Wooden containers.....	18	10	1,376	4,482	1,264	2,655	3,793	7,341	(Z)	1,334	5,765
249	Miscellaneous wood products....	57	24	1,880	6,128	1,710	3,439	5,152	11,537	610	1,723	7,229
25	Furniture and fixtures.....	115	56	8,167	28,854	6,979	14,057	21,727	47,244	1,426	6,876	31,123
251	Household furniture.....	86	44	7,048	24,449	6,172	12,405	19,012	39,488	1,058	6,155	27,071
253	Public building furniture.....	13	8	863	3,423	633	1,319	2,184	6,086	(Z)	572	3,337
26	Paper and allied products.....	33	23	7,152	40,007	6,013	12,139	31,714	118,164	20,190	5,190	65,565
265	Paperboard containers and boxes.....	11	8	1,407	6,935	1,130	2,284	4,960	21,705	749	1,160	14,243
27	Printing and publishing.....	241	38	3,802	17,084	2,496	5,039	10,708	31,051	2,312	2,981	20,368
271	Newspapers.....	115	17	2,020	8,264	1,176	2,363	4,764	15,098	1,495	1,684	11,654
275	Commercial printing.....	89	12	1,010	5,018	730	1,476	3,331	7,995	(Z)	784	5,076
28	Chemicals and allied products...	48	15	3,310	21,744	2,595	5,170	15,877	69,779	5,005	3,229	49,411
281	Basic chemicals.....	11	5	2,575	18,452	2,028	4,054	13,770	58,320	4,265	2,430	41,649
287	Agricultural chemicals.....	11	5	316	1,351	241	478	818	3,336	(Z)	371	2,788
29	Petroleum and coal products.....	20	10	1,453	9,441	1,121	2,395	6,780	25,596	958	1,582	18,777
291	Petroleum refining.....	9	6	1,006	7,463	768	1,564	5,463	20,567	841	1,154	10,622
31	Leather and leather products....	24	21	6,510	19,679	6,129	11,546	17,193	35,995	(Z)	3,947	25,663
314	Footwear, except rubber.....	18	18	6,151	18,445	5,806	10,931	16,289	33,768	(Z)	3,768	20,042
32	Stone, clay and glass products..	147	39	4,022	18,743	3,276	6,770	14,432	46,865	4,645	3,377	31,238
327	Concrete and plaster products..	108	19	1,516	6,440	1,213	2,715	5,062	14,624	1,903	1,088	9,150
33	Primary metal industries.....	28	19	3,121	18,543	2,602	5,382	14,363	37,665	2,598	2,450	36,297
336	Nonferrous foundries.....	9	8	1,057	5,186	866	1,758	3,915	11,515	1,239	302	3,067
34	Fabricated metal products.....	123	42	4,187	17,210	3,438	7,222	12,724	34,419	1,846	2,709	19,377
342	Outlery, hand tools, hardware..	15	8	774	2,991	573	1,202	1,844	5,976	(Z)	636	4,348
344	Structural metal products.....	69	16	1,442	5,974	1,120	2,391	4,208	11,318	761	875	6,384
35	Machinery, except electrical....	135	37	3,075	13,648	2,462	5,000	9,743	35,526	1,370	1,279	11,172
356	General industrial machinery...	11	4	342	1,579	247	469	898	3,713	(Z)	237	2,822
358	Service industry machines.....	11	7	790	3,340	645	1,320	2,406	9,476	(Z)	122	682
359	Miscellaneous machinery.....	59	5	355	1,664	298	642	1,346	2,752	(Z)	311	2,429
36	Electrical machinery.....	35	21	7,599	29,216	6,580	12,948	22,636	72,655	3,451	2,914	29,214
362	Electric industrial apparatus...	11	8	2,640	10,078	2,413	4,822	8,497	27,480	1,074	1,124	12,331
37	Transportation equipment.....	50	19	2,146	8,729	1,852	3,625	6,647	15,714	848	1,076	6,092
371	Motor vehicles and equipment...	23	6	682	2,692	605	1,229	2,086	6,219	(Z)	337	1,487
39	Miscellaneous manufacturing, including ordnance ³	67	17	3,027	11,366	2,592	5,340	8,552	23,647	576	1,810	12,023
394	Toys and sporting goods.....	18	6	1,861	7,303	1,566	3,288	5,350	15,008	(Z)	1,302	9,477
399	Miscellaneous manufactures ³ ...	41	9	567	1,993	472	993	1,436	3,862	(Z)	427	2,253
190	Administrative and auxiliary ⁴ ...	-	-	548	3,686	-	-	-	-	-	756	-

- Represents zero. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S5

Area series

CALIFORNIA

preliminary report

Value added by manufacturing in 1963 in the State of California amounted to \$17,157 million, an increase of 8 percent from 1962 and 42 percent from 1958. Of this total, \$2,742 million was contributed by the transportation equipment industries and \$2,452 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	31,709	8,846	1,394,492	9,564,610	903,547	1,813,079	5,219,500	17,157,242	955,769	115	142
1962 ³	(NA)	(NA)	1,359,085	8,975,975	886,770	1,791,079	5,010,948	15,868,371	912,175	112	132
1961 ³	(NA)	(NA)	1,302,283	8,196,344	857,506	1,709,453	4,632,307	14,243,551	740,837	107	118
1960 ³	(NA)	(NA)	1,305,444	7,967,796	869,418	1,734,283	4,564,158	14,174,350	769,520	107	118
1959 ³	(NA)	(NA)	1,294,223	7,661,597	884,351	1,757,431	4,494,809	13,501,399	718,464	106	112
1958.....	28,322	7,858	1,216,423	7,869,288	838,671	1,656,699	4,107,169	12,047,983	753,425	100	100

(NA) Not available. ¹Revised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

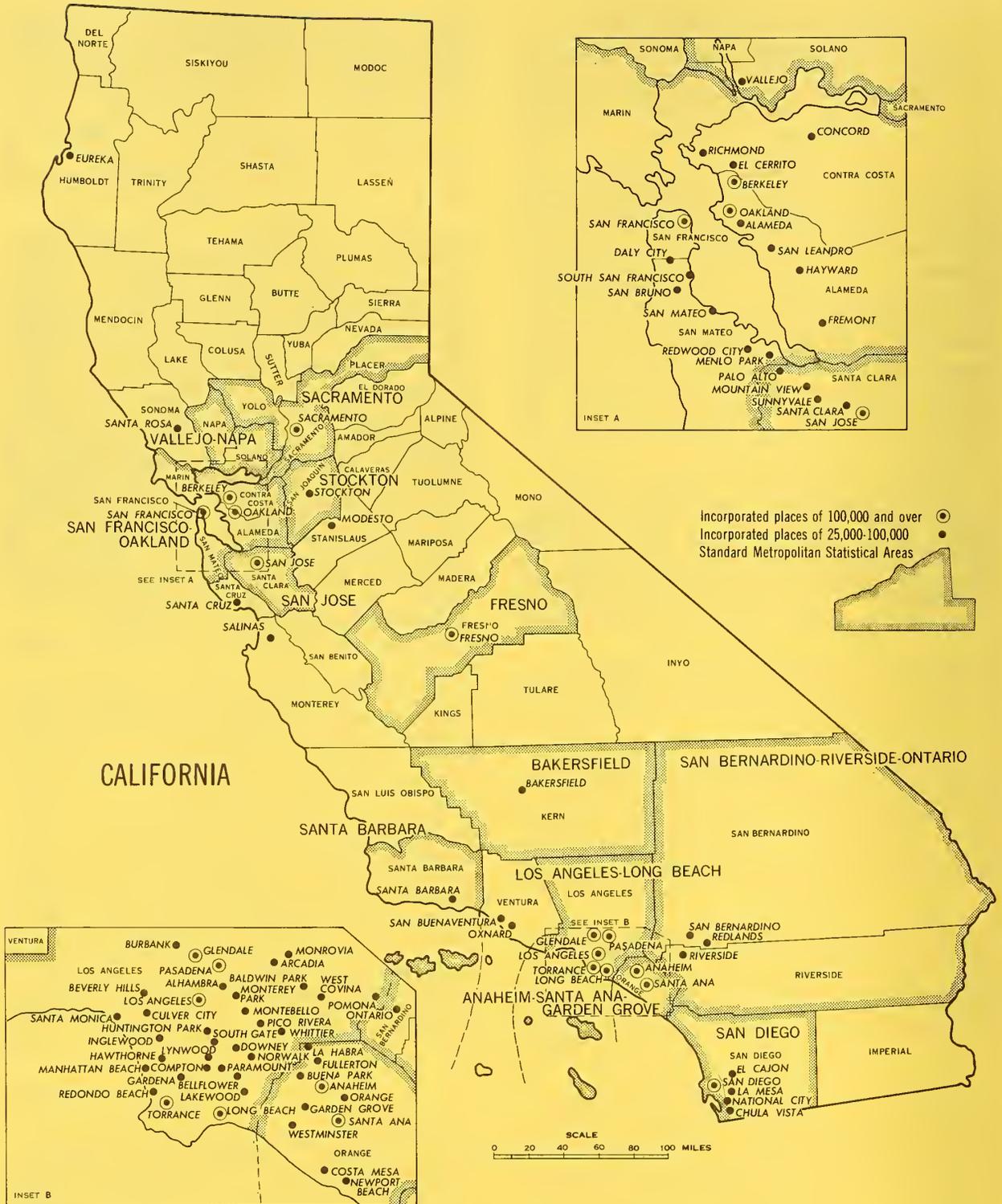


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CALIFORNIA, TOTAL.....	31,709	8,846	1,394,492	9,564,610	903,547	1,813,079	5,219,500	17,157,242	955,769	1,216,423	12,047,983
STANDARD METROPOLITAN STATISTICAL AREAS											
Anaheim-Santa Ana-Garden Grove ⁴	1,426	381	94,574	670,646	53,878	109,232	321,379	1,198,321	68,559	31,770	315,305
Bakersfield ⁵	274	63	5,250	37,584	4,273	8,551	25,289	81,783	14,092	5,514	59,833
Fresno ⁶	527	143	14,293	74,919	10,646	20,432	50,092	182,388	19,791	12,505	131,055
Los Angeles-Long Beach ⁷	17,434	5,072	742,610	5,067,300	495,926	999,977	2,853,207	8,905,836	378,902	697,142	6,729,381
Sacramento ⁸	547	140	35,459	272,768	19,130	40,017	123,681	532,304	41,342	23,948	290,066
San Bernardino-Riverside-Ontario ⁹	966	223	38,338	244,040	28,219	57,125	161,863	506,972	44,925	29,216	319,642
San Diego ¹⁰	911	189	60,058	451,568	30,012	58,403	185,777	711,758	14,332	71,383	605,526
San Francisco-Oakland ¹¹	4,749	1,312	194,084	1,359,179	126,861	245,084	770,571	2,566,720	190,215	189,700	2,049,371
San Jose ¹²	1,070	327	98,465	765,877	48,789	97,086	289,799	1,203,786	65,696	53,921	631,557
Santa Barbara ¹³	211	53	7,383	47,620	3,648	6,894	18,369	64,165	6,265	3,949	31,371
Stockton ¹⁴	346	118	13,730	80,335	10,762	20,445	57,809	216,983	12,740	12,667	147,680
Vallejo-Napa ¹⁵	140	14	4,489	26,239	3,129	5,912	16,043	45,427	3,086	4,485	45,529
COUNTIES ¹											
Alameda.....	1,704	528	72,449	504,862	52,082	101,211	312,975	1,022,973	86,112	71,781	809,690
Amador.....	20	7	778	4,570	695	1,373	3,900	7,664	516	758	6,898
Butte.....	116	29	2,754	14,609	2,198	4,152	10,892	28,683	1,366	3,047	21,475
Calaveras.....	22	6	948	5,380	788	1,551	4,195	13,164	765	1,174	12,906
Contra Costa.....	365	121	29,241	207,443	19,791	39,052	131,049	546,284	61,046	27,143	404,262
Del Norte.....	72	19	1,938	11,342	1,739	3,590	10,169	56,109	2,269	2,179	21,674
El Dorado.....	65	9	978	5,566	803	1,637	4,363	9,615	1,054	1,346	10,817
Fresno.....	527	143	14,293	74,919	10,646	20,432	50,092	182,388	19,791	12,505	131,055
Glenn.....	28	5	474	2,774	390	765	2,182	6,525	(Z)	467	3,164
Humboldt.....	371	88	11,094	64,356	9,589	18,588	52,721	113,553	9,936	11,889	99,091
Imperial.....	56	14	1,438	7,703	1,107	2,340	5,761	26,027	922	1,043	13,686
Kern.....	274	63	5,850	37,584	4,273	8,551	25,289	81,783	14,092	5,514	59,833
Kings.....	48	17	1,324	7,380	763	1,530	4,167	17,178	4,333	1,216	13,298
Lassen.....	28	8	707	3,100	615	1,069	2,651	5,526	(Z)	736	6,229
Los Angeles.....	17,434	5,072	742,610	5,067,300	495,926	999,977	2,853,207	8,905,836	378,902	697,142	6,729,381
Madera.....	53	14	1,097	5,760	872	1,719	4,396	16,621	1,874	863	7,628
Marin.....	151	19	1,933	12,274	1,350	2,608	7,908	23,593	1,075	1,730	18,225
Mendocino.....	181	47	4,603	24,680	4,063	8,265	21,380	45,183	4,461	5,130	42,516
Merced.....	83	22	1,954	9,404	1,556	2,929	7,060	24,313	901	1,874	17,748
Modoc.....	17	4	315	1,556	285	564	1,414	3,835	(Z)	505	2,390
Monterey.....	172	47	5,494	27,414	4,275	7,995	18,651	70,793	5,520	4,236	44,318
Napa.....	76	22	2,458	14,081	1,689	3,216	8,702	21,342	1,596	2,672	24,337
Nevada.....	50	12	582	2,862	511	975	2,440	6,870	516	659	4,534
Orange.....	1,426	381	94,574	670,646	53,878	109,232	321,379	1,198,321	68,559	31,770	315,305
Placer.....	59	10	1,428	8,417	1,563	2,634	7,170	15,862	571	1,305	12,368
Plumas.....	49	16	1,268	7,034	1,150	2,268	6,037	12,362	1,404	1,366	13,073
Riverside.....	356	82	13,883	80,079	10,082	20,809	53,257	169,812	16,393	11,826	98,813
Sacramento.....	411	108	31,719	250,333	16,093	33,889	106,388	470,626	34,909	20,610	246,901
San Benito.....	18	7	702	5,104	499	932	3,390	7,886	(Z)	807	8,803
San Bernardino.....	610	141	24,455	163,961	18,137	36,316	108,606	337,160	28,532	17,390	220,829
San Diego.....	911	189	60,058	451,568	30,012	58,403	185,777	711,758	14,332	71,383	605,526
San Francisco.....	1,800	457	50,261	321,725	35,632	66,592	207,627	607,667	24,005	55,730	576,273
San Joaquin.....	346	118	13,730	80,335	10,762	20,445	57,809	216,983	12,740	12,667	147,680
San Luis Obispo.....	68	7	865	4,703	542	1,085	2,692	8,837	685	830	9,205
San Mateo.....	728	186	29,754	214,435	18,006	35,621	111,112	366,203	17,977	24,299	240,921
Santa Barbara.....	211	53	7,383	47,620	3,648	6,894	18,369	64,165	6,265	3,949	31,371
Santa Clara.....	1,070	327	98,465	765,877	48,789	97,086	289,799	1,203,786	65,696	53,921	631,557
Santa Cruz.....	166	40	5,424	23,853	4,493	7,485	18,044	55,659	3,074	3,387	30,756
Shasta.....	136	32	3,590	21,265	2,987	5,886	17,098	32,387	12,338	3,301	26,071
Siskiyou.....	96	30	2,566	12,841	2,274	4,111	11,154	23,066	2,034	3,003	18,431

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Solano.....	64	19	2,031	12,158	1,440	2,698	7,341	24,085	1,490	1,813	21,192
Sonoma.....	316	65	5,166	28,193	3,956	7,559	19,830	59,937	3,794	5,316	48,754
Stanislaus.....	229	73	10,487	56,864	8,464	16,493	41,160	127,728	12,754	9,220	82,685
Sutter.....	46	10	1,144	5,199	974	1,740	4,224	10,317	1,146	764	4,865
Tehama.....	62	17	2,394	14,064	2,085	4,172	11,697	23,702	2,208	1,816	15,987
Trinity.....	38	10	844	4,419	774	1,467	3,932	9,037	1,069	831	6,948
Tulare.....	178	51	4,352	22,319	3,366	6,640	15,170	49,354	3,825	3,014	24,879
Ventura.....	183	50	7,381	49,825	4,296	8,562	23,290	76,593	14,123	6,708	55,505
Yolo.....	77	22	2,312	14,018	1,774	3,494	10,123	45,816	5,862	2,033	30,797
Yuba.....	34	13	881	4,466	722	1,355	3,484	9,323	509	708	5,689

(Z) Less than \$500 thousand. [†] Revised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Anaheim-Santa Ana-Garden Grove Standard Metropolitan Statistical Area is coextensive with Orange County, Calif.⁵The Bakersfield Standard Metropolitan Statistical Area is coextensive with Kern County, Calif.⁶The Fresno Standard Metropolitan Statistical Area is coextensive with Fresno County, Calif.⁷The Los Angeles-Long Beach Standard Metropolitan Statistical Area is coextensive with Los Angeles County, Calif.⁸The Sacramento Standard Metropolitan Statistical Area consists of Placer, Sacramento, and Yolo Counties, Calif.⁹The San Bernardino-Riverside-Ontario Standard Metropolitan Statistical Area consists of Riverside and San Bernardino Counties, Calif.¹⁰The San Diego Standard Metropolitan Statistical Area is coextensive with San Diego County, Calif.¹¹The San Francisco-Oakland Standard Metropolitan Statistical Area consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties, Calif.¹²The Santa Clara Standard Metropolitan Statistical Area is coextensive with Santa Clara County, Calif.¹³The Santa Barbara Standard Metropolitan Statistical Area is coextensive with Santa Barbara County, Calif.¹⁴The Stockton Standard Metropolitan Statistical Area is coextensive with San Joaquin County, Calif.¹⁵The Vallejo-Napa Standard Metropolitan Statistical Area consists of Solano and Napa Counties, Calif.REVISIONS TO ANNUAL SURVEY OF MANUFACTURES VOLUMES
Los Angeles and Orange Counties: 1960 TO 1962

Counties	All employees ¹		Production workers			Value added by manufacture	Capital expenditures, new
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
As published							
Los Angeles							
1960.....	720,447	4,364,493	489,928	980,051	2,533,318	7,819,461	357,456
1961.....	708,258	4,450,424	479,798	961,577	2,551,021	7,750,515	327,705
1962.....	749,381	4,985,445	508,382	1,034,070	2,835,284	8,727,173	375,072
As revised							
Los Angeles							
1960.....	734,150	4,470,357	489,006	978,096	2,528,198	7,803,247	357,456
1961.....	712,894	4,482,621	475,139	951,833	2,524,640	7,637,231	309,582
1962.....	745,027	4,942,257	500,530	1,017,710	2,789,649	8,487,468	363,522
As published							
Orange							
1960.....	41,188	246,401	29,063	59,162	152,652	450,717	29,959
1961.....	45,245	288,099	31,832	65,744	176,444	515,763	38,646
1962.....	52,108	341,367	36,482	76,067	205,882	636,781	33,980
As revised							
Orange							
1960.....	43,686	266,553	29,985	61,117	157,772	466,931	29,959
1961.....	56,810	381,918	36,491	75,488	202,825	629,047	56,769
1962.....	72,663	510,571	44,334	92,427	251,517	876,486	45,530

¹The revised employment and payroll figures for Los Angeles and Orange Counties include the employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufac- ture (\$1,000)	Capital expendi- tures, new ¹ (\$1,000)	All employ- ees, number	Value added by manufac- ture (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	31,709	8,846	1,394,492	9,564,610	903,547	1,813,079	5,219,500	17,157,242	955,769	1,216,423	12,047,983
20	Food and kindred products.....	3,067	1,204	1,566,779	932,047	109,654	210,773	566,877	2,452,211	141,994	157,709	1,906,895
201	Meat products.....	335	149	16,093	105,103	12,371	25,035	73,658	195,207	13,624	16,765	177,566
202	Dairies.....	429	174	19,128	130,058	8,276	18,922	53,247	284,284	13,946	20,436	241,988
203	Canned and frozen foods.....	577	300	51,555	242,003	44,946	80,365	190,270	665,788	43,699	51,206	520,509
204	Grain mill products.....	252	82	6,891	45,254	4,423	9,641	26,430	175,576	6,179	7,031	129,644
207	Candy and related products...	142	50	4,982	23,852	4,045	8,431	16,112	65,801	4,943	5,197	43,451
208	Beverages.....	405	148	15,344	102,568	8,566	16,904	52,974	355,956	20,064	15,951	294,778
209	Miscellaneous foods and kindred products.....	535	143	14,659	93,618	9,652	19,128	54,092	324,316	23,761	13,970	219,519
22	Textile mill products.....	264	106	6,950	34,243	5,678	11,480	24,213	79,184	3,216	5,401	46,162
227	Floor covering mills.....	54	22	1,728	8,426	1,366	2,703	5,592	22,528	897	1,056	8,280
229	Miscellaneous textile goods..	69	34	2,409	13,990	1,867	4,048	9,413	31,970	1,342	2,043	23,597
23	Apparel and related products...	2,489	867	63,281	238,469	55,081	100,275	182,972	426,337	7,135	56,934	331,118
231	Men's and boys' suits and coats.....	63	24	3,301	14,131	3,014	5,649	11,502	22,905	(2)	3,117	16,949
232	Men's and boys' furnishings..	229	98	8,748	30,127	7,721	14,202	23,733	55,622	554	8,798	49,023
233	Women's and misses' outerwear	1,106	498	31,973	121,900	27,691	48,974	92,476	214,978	3,919	27,207	168,033
234	Women's and children's underwear.....	72	40	3,727	13,453	3,270	6,153	10,743	23,739	(2)	3,986	19,660
235	Millinery, hats and caps.....	49	9	576	2,416	503	875	1,890	3,986	(2)	678	4,160
238	Miscellaneous apparel.....	77	21	1,589	6,648	1,370	2,679	4,983	11,294	(2)	1,844	10,898
239	Fabricated textiles, n.e.c....	743	139	10,715	41,291	9,153	17,626	30,694	77,067	1,829	8,389	48,144
24	Lumber and wood products.....	2,346	558	52,434	293,595	45,902	100,239	244,579	511,509	42,774	51,569	400,992
243	Millwork and related products	730	168	14,822	89,481	12,615	24,828	71,183	149,095	6,592	12,021	94,888
244	Wooden containers.....	130	28	2,882	15,488	2,539	5,084	12,851	21,292	3,251	3,171	22,053
249	Miscellaneous wood products..	310	64	5,488	26,241	4,618	8,751	20,024	49,362	3,533	4,431	32,666
25	Furniture and fixtures.....	1,576	428	32,681	182,914	26,368	51,491	134,491	316,032	8,227	27,489	215,143
251	Household furniture.....	997	304	23,446	125,516	19,337	37,545	93,451	218,981	5,753	20,225	155,535
254	Partitions and fixtures.....	328	69	5,063	34,169	3,835	7,675	24,687	55,820	1,513	3,690	32,402
259	Furniture and fixtures, n.e.c.....	128	22	1,459	8,185	1,084	2,170	5,819	14,406	(2)	1,445	11,050
26	Paper and allied products.....	483	262	28,865	178,785	22,761	46,510	128,683	367,727	33,610	24,469	263,460
263	Paperboard mills.....	19	16	2,633	18,004	2,174	4,572	14,343	52,544	2,396	2,481	36,261
264	Paper and paperboard products	238	110	10,580	62,819	8,290	16,817	44,144	136,596	12,547	8,157	82,026
265	Paperboard containers and boxes.....	208	124	14,488	89,830	11,350	23,105	63,654	158,434	9,354	12,279	127,771
27	Printing and publishing.....	3,661	608	72,471	468,723	45,367	83,465	287,203	819,511	34,881	64,197	596,651
271	Newspapers.....	538	182	33,479	218,014	17,149	31,231	114,849	371,246	12,997	29,114	262,248
272	Periodicals.....	278	27	2,222	13,646	559	953	3,038	32,282	1,188	2,175	24,328
273	Books.....	148	30	2,480	14,682	1,268	2,461	6,736	30,368	1,256	1,168	12,598
274	Miscellaneous publishing.....	180	17	2,547	14,564	1,636	3,225	8,876	23,780	658	2,411	23,667
275	Commercial printing.....	1,977	240	22,159	146,881	17,482	32,671	108,206	243,839	13,573	20,292	185,316
276	Mainfold business forms.....	61	34	3,776	24,062	2,631	4,941	16,672	55,995	2,996	2,985	35,839
277	Greeting card manufacturing..	31	7	441	1,924	360	688	1,395	4,618	(2)	932	8,014
278	Bookbinding and related work.	146	31	2,614	13,885	2,236	4,267	11,078	25,032	1,108	2,394	17,567
279	Printing trades services.....	302	40	2,753	21,065	2,042	3,928	16,153	32,351	1,001	2,726	27,074
28	Chemicals and allied products..	1,308	357	36,499	244,781	21,466	43,297	126,761	813,948	56,139	32,588	596,735
281	Basic chemicals.....	167	78	8,441	62,372	5,402	10,872	36,627	211,860	33,584	7,740	169,239
283	Drugs.....	137	34	3,762	22,703	1,855	3,669	8,392	46,138	1,771	3,424	45,608
284	Cleaning and toilet goods....	293	64	8,129	52,738	4,933	9,995	27,819	237,429	2,389	6,998	146,980
285	Paints and allied goods.....	252	72	6,774	46,148	3,685	7,559	22,507	123,576	4,487	5,713	85,531
287	Agricultural chemicals.....	118	28	2,387	14,013	1,356	2,569	6,564	42,193	1,330	2,406	29,923
289	Miscellaneous chemical products.....	240	49	3,855	24,860	2,353	4,771	13,054	68,755	2,398	3,781	54,164
29	Petroleum and coal products....	203	67	18,091	135,314	12,831	24,847	88,824	496,687	60,112	20,744	313,801
291	Petroleum refining.....	53	33	15,275	115,714	10,844	20,681	76,258	433,289	57,046	17,693	269,563
30	Rubber and plastics products, n.e.c.....	762	273	29,547	171,683	22,972	46,363	117,785	337,006	23,781	23,810	248,361
307	Plastics products, n.e.c.....	588	182	14,372	74,584	11,615	23,606	50,987	149,059	15,388	8,400	72,179
31	Leather and leather products..	199	69	5,821	25,719	4,963	9,223	18,614	39,952	677	5,786	37,157
311	Leather tanning and finishing	17	8	559	3,212	484	946	2,436	4,441	(2)	674	5,528
319	Leather goods, n.e.c.....	39	4	285	1,188	238	507	902	1,970	(2)	357	2,563
32	Stone, clay and glass products.	1,532	429	46,360	289,819	34,771	70,648	202,658	658,674	56,842	41,283	484,311
323	Products of purchased glass..	101	17	1,295	7,285	980	1,979	5,027	17,897	887	1,226	8,926
324	Cement, hydraulic.....	18	13	4,364	30,489	3,484	7,052	22,651	93,590	13,539	4,742	86,574
325	Structural clay products.....	79	54	5,313	29,948	4,259	8,607	21,691	60,843	3,873	4,955	47,492
326	Pottery and related products.	175	39	4,166	19,609	3,608	6,764	15,770	32,749	1,104	4,738	33,710
327	Concrete and plaster products	850	217	15,630	101,736	10,127	20,647	62,836	231,315	20,270	13,480	149,761
328	Cut stone and stone products	50	11	665	3,432	531	1,050	2,579	4,970	(2)	386	3,288
329	Nonmetallic mineral products.	217	55	7,316	48,727	5,165	11,015	31,455	113,217	10,929	5,782	84,063

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
33	Primary metal industries.....	706	307	47,774	326,327	38,480	77,519	242,929	592,451	49,821	46,444	505,561
331	Steel rolling and finishing..	70	40	18,962	143,726	15,447	29,561	108,035	262,668	33,040	18,865	263,984
332	Iron and steel foundries....	110	71	7,292	43,459	6,234	12,520	34,582	72,535	2,239	7,688	59,924
334	Secondary nonferrous metals...	48	17	1,425	9,239	905	1,837	5,156	18,209	860	1,479	14,096
336	Nonferrous foundries.....	254	87	6,581	38,269	5,456	11,205	29,230	66,187	2,247	5,941	50,207
339	Primary metal industries, n.e.c.....	143	46	3,673	25,847	2,746	5,690	17,664	47,987	3,208	3,108	29,902
34	Fabricated metal products.....	3,354	956	90,241	578,104	69,085	141,758	396,903	1,059,871	56,089	85,023	856,353
341	Metal cans.....	46	34	8,132	59,199	7,123	14,706	49,828	148,899	11,985	8,129	109,886
342	Cutlery, hand tools, hardware	279	77	9,663	60,479	7,057	14,566	37,329	114,983	6,597	9,110	93,578
343	Plumbing and heating, except electric.....	134	56	6,811	42,101	5,304	10,616	29,130	79,817	4,323	5,710	54,221
344	Structural metal products.....	1,150	351	29,609	193,915	21,771	42,868	127,718	323,622	13,204	30,839	303,326
345	Screw machine products.....	262	68	7,468	49,860	5,694	12,502	34,314	93,020	3,484	5,880	69,839
346	Metal stampings.....	254	73	5,207	31,201	4,218	8,497	22,842	53,063	2,225	5,379	53,691
347	Metal services, n.e.c.....	693	128	8,687	47,662	7,129	15,729	36,258	78,231	3,914	7,268	55,577
348	Fabricated wire products, n.e.c.....	209	59	3,992	22,246	3,203	6,222	15,851	37,923	2,153	4,205	32,970
349	Fabricated metal products, n.e.c.....	327	110	10,672	71,441	7,586	16,052	43,634	130,313	8,204	8,345	83,265
35	Machinery, except electrical... Construction and like equipment.....	4,596	772	92,644	644,650	61,548	125,354	373,592	1,078,390	51,202	78,665	767,748
354	Metalworking machinery.....	296	101	10,641	72,132	7,292	14,777	44,095	155,017	4,049	10,946	107,828
355	Special industry machinery.....	770	120	10,410	75,953	8,107	17,114	55,370	129,430	5,310	9,285	89,251
356	General industrial machinery.....	306	72	8,270	51,517	5,863	11,916	32,176	91,796	2,903	7,328	67,502
357	Office machines, n.e.c.....	511	122	19,000	141,562	9,792	20,115	58,879	220,911	9,625	12,689	147,134
358	Service industry machines.....	91	46	15,378	108,411	7,623	15,384	46,224	152,254	14,522	9,805	73,507
359	Miscellaneous machinery.....	263	61	5,671	34,930	4,004	8,037	21,925	59,778	1,533	5,521	50,485
359	Miscellaneous machinery.....	2,148	210	18,335	120,540	15,081	30,350	92,305	203,119	10,872	15,895	153,013
36	Electrical machinery.....	1,812	686	186,210	1,305,030	110,507	225,300	629,671	2,162,756	102,877	87,011	1,818,371
361	Electric distribution products.....	223	88	13,836	98,709	9,487	19,683	55,575	185,781	4,962	16,235	167,669
362	Electric industrial apparatus	171	58	7,599	48,440	5,012	10,274	28,357	80,034	3,120	6,555	58,927
363	Household appliances.....	75	29	5,604	36,142	4,003	7,963	23,167	85,529	3,126	6,726	92,295
364	Lighting and wiring devices...	330	107	9,056	51,413	6,902	13,640	33,044	101,552	3,807	9,665	91,846
367	Electronic components.....	474	201	46,922	290,705	31,601	63,970	159,938	468,750	37,614	19,956	164,866
37	Transportation equipment.....	1,322	474	204,324	1,647,651	125,861	261,991	868,209	2,742,346	158,463	264,550	2,525,462
371	Motor vehicles and equipment...	403	143	27,437	202,291	21,730	49,129	152,201	586,731	58,210	24,338	297,569
373	Ship and boat building.....	222	46	11,093	73,893	9,444	18,089	60,299	108,801	1,669	10,990	88,628
379	Transportation equipment, n.e.c.....	159	71	6,536	32,989	5,541	10,899	25,406	54,660	2,364	4,185	29,128
38	Instruments and related products	630	160	23,951	197,701	16,348	34,648	97,640	266,986	13,485	18,114	185,205
382	Mechanical measuring devices.	107	44	10,938	66,647	7,534	16,309	45,943	115,566	5,523	7,672	83,187
383	Optical instruments and lenses.....	57	17	2,016	14,190	1,389	2,932	8,353	25,005	1,306	660	5,738
384	Medical instruments and supplies.....	211	32	3,871	24,270	2,539	5,029	12,871	46,630	2,828	2,054	20,008
385	Ophthalmic goods.....	32	3	295	1,503	249	471	1,165	2,825	(Z)	163	1,075
39	Miscellaneous manufacturing, including ordnance ³	1,391	262	157,092	1,286,873	73,844	147,855	486,728	1,935,295	54,443	89,966	1,948,293
391	Jewelry and silverware.....	133	12	1,021	5,604	803	1,585	4,174	13,700	(Z)	932	9,254
393	Musical instruments and parts	34	7	950	5,065	781	1,502	3,950	6,913	(Z)	515	3,715
394	Toys and sporting goods.....	309	61	9,890	46,993	7,623	14,404	28,494	119,096	7,220	5,225	45,631
395	Pens, pencils and office supplies.....	113	25	2,709	15,214	1,919	3,833	8,576	38,308	1,640	1,924	19,985
396	Costume jewelry and notions..	77	13	1,082	5,152	918	1,868	3,659	9,530	(Z)	794	4,837
398	Miscellaneous manufactures ³ ..	725	144	141,440	1,208,845	61,800	124,663	437,875	1,747,748	44,868	80,576	1,864,871
399	Miscellaneous manufactures ³ ..	725	144	141,440	1,208,845	61,800	124,663	437,875	1,747,748	44,868	80,576	1,864,871
190	Miscellaneous manufactures ³ ..	725	144	141,440	1,208,845	61,800	124,663	437,875	1,747,748	44,868	80,576	1,864,871
--	Administrative and auxiliary ⁴ ..	-	-	42,427	421,964	-	-	-	-	-	34,628	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. [†] Revised.¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ANAHEIM-SANTA ANA-GARDEN GROVE SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	1,426	381	94,574	670,646	53,878	109,232	321,379	1,198,321	68,559	31,770	315,305
20	Food and kindred products.....	98	37	4,865	29,383	3,285	6,687	16,594	78,292	9,050	3,014	39,965
203	Canned and frozen foods.....	11	5	495	2,963	249	486	1,179	4,641	(Z)	1,568	20,368
26	Paper and allied products.....	28	11	1,742	10,426	1,371	2,828	7,517	31,365	833	913	11,742
27	Printing and publishing.....	137	30	2,952	16,129	1,852	3,461	10,257	35,575	2,531	1,532	16,766
271	Newspapers.....	24	10	1,418	7,808	754	1,515	4,575	17,572	941	729	7,347
28	Chemicals and allied products...	62	10	1,378	10,013	644	1,331	3,899	29,333	2,131	798	16,831
30	Rubber and plastics products, n.e.c.....	64	28	3,115	17,183	2,468	4,830	12,059	30,850	3,781	1,676	11,999
306	Rubber products, n.e.c.....	16	8	1,341	7,308	1,075	2,100	5,207	15,228	(Z)	993	8,617
32	Stone, clay and glass products..	91	26	1,662	10,601	1,145	2,399	6,649	23,383	1,482	1,293	12,020
327	Concrete and plaster products.	43	16	790	5,306	487	1,011	3,104	12,502	747	600	6,329
33	Primary metal industries.....	21	11	872	5,194	719	1,437	3,817	10,086	(Z)	853	9,593
34	Fabricated metal products.....	165	43	5,559	34,913	4,174	8,373	23,415	70,847	6,198	3,688	40,252
342	Cutlery, hand tools, hardware.	15	5	692	4,484	502	1,026	2,789	10,468	(D)	601	892
344	Structural metal products.....	67	14	1,059	6,454	781	1,535	4,436	10,878	762	652	6,890
345	Screw machine products.....	15	5	1,776	11,561	1,351	2,781	7,705	23,879	890	842	9,663
349	Fabricated metal products, n.e.c.....	21	6	1,004	6,330	669	1,362	3,746	14,341	(D)	699	6,834
35	Machinery, except electrical....	236	40	3,715	26,347	2,643	5,483	16,329	46,455	3,164	1,739	14,596
36	Electrical machinery.....	134	50	55,392	415,402	25,835	52,686	159,363	671,307	25,596	8,504	79,898
37	Transportation equipment.....	80	20	5,021	42,646	4,109	8,441	34,548	68,441	5,904	2,294	22,360
372	Aircraft and parts.....	23	10	3,800	36,984	3,051	6,338	29,925	58,684	5,084	1,282	14,415
38	Instruments and related products	32	14	1,337	9,271	746	1,560	4,341	15,185	580	798	7,257
39	Miscellaneous manufacturing, including ordnance ³	80	15	2,147	12,227	1,761	3,524	8,522	23,742	3,018	2,518	22,651
--	Administrative and auxiliary ⁴	-	-	1,118	10,250	-	-	-	-	-	609	-
LOS ANGELES-LONG BEACH SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	17,434	5,072	742,610	5,067,300	495,926	999,977	2,853,207	8,905,836	378,902	697,142	6,729,381
20	Food and kindred products.....	938	354	49,172	316,186	31,089	61,526	174,662	777,077	34,779	50,420	603,987
201	Meat products.....	120	51	7,447	52,325	5,522	11,554	35,794	91,032	6,690	7,915	73,118
202	Dairies.....	128	52	8,287	56,162	3,513	7,382	22,260	132,524	7,599	8,287	105,014
203	Canned and frozen foods.....	142	54	6,836	34,840	5,401	9,680	22,968	94,251	2,110	7,464	72,124
204	Grain mill products.....	81	31	2,469	16,604	1,489	3,221	8,595	37,762	1,831	2,447	37,939
205	Bakery products.....	144	56	10,638	75,411	6,061	11,790	37,951	149,580	7,611	11,707	129,992
209	Miscellaneous foods and kindred products.....	174	60	5,718	34,710	3,931	7,752	20,281	106,785	4,084	5,449	83,415
22	Textile mill products.....	198	77	4,733	22,734	3,889	7,881	16,105	52,635	1,870	3,713	31,734
227	Floor covering mills.....	44	17	1,127	5,464	888	1,782	3,453	14,212	808	539	3,941
23	Apparel and related products....	1,854	703	48,889	187,595	42,487	78,393	144,471	336,552	5,510	44,324	260,914
231	Men's and boys' suits and coats.....	42	18	1,531	7,117	1,390	2,704	5,977	11,785	(Z)	1,829	11,010
232	Men's and boys' furnishings....	174	72	5,647	20,188	4,909	9,207	15,820	36,359	(Z)	5,544	30,460
233	Women's and misses' outerwear.	888	416	26,219	101,773	22,714	40,862	78,059	178,382	3,183	22,368	140,853
234	Women's and children's underwear.....	62	33	3,400	12,485	2,960	5,588	9,891	22,149	(Z)	3,739	18,638
236	Children's outerwear.....	66	28	1,879	6,136	1,667	2,853	4,906	11,908	(Z)	2,221	9,636
238	Miscellaneous apparel.....	63	21	1,473	6,173	1,269	2,475	4,658	10,684	(Z)	1,723	10,127
239	Fabricated textiles, n.e.c.....	456	110	8,052	30,845	6,989	13,555	22,872	59,700	1,426	6,125	34,261
24	Lumber and wood products.....	520	110	7,762	45,112	6,318	12,206	32,967	77,186	2,250	6,607	51,277
243	Millwork and related products.	274	52	4,041	27,125	3,246	6,361	19,766	44,799	1,433	3,629	28,575
249	Miscellaneous wood products....	161	35	2,584	11,485	2,101	3,937	8,289	21,047	861	1,431	10,397
25	Furniture and fixtures.....	981	315	23,825	131,038	19,125	37,234	94,787	229,652	6,214	19,977	155,044
251	Household furniture.....	658	237	17,621	93,712	14,433	28,034	68,482	164,941	4,558	14,849	112,772
254	Partitions and fixtures.....	165	38	3,147	20,616	2,344	4,639	14,755	33,974	917	2,227	20,337
26	Paper and allied products.....	283	146	14,178	85,792	11,145	22,932	61,059	168,092	7,803	12,050	121,515
263	Paperboard mills.....	11	9	1,199	8,306	1,010	2,282	6,720	22,250	731	1,302	19,167
27	Printing and publishing.....	1,833	295	34,013	222,345	22,166	41,056	138,151	380,291	15,846	31,325	284,167
271	Newspapers.....	139	58	13,013	88,104	6,616	11,936	45,110	148,900	4,550	12,206	110,543
272	Periodicals.....	159	13	1,262	8,410	278	453	1,541	18,285	1,020	1,174	15,017
275	Commercial printing.....	1,063	140	12,195	79,277	9,672	18,369	58,306	130,599	6,942	10,569	94,358
277	Greeting card manufacturing....	13	5	337	1,626	279	534	1,189	3,930	(Z)	878	7,604
278	Bookbinding and related work..	88	23	1,845	9,469	1,582	3,085	7,536	17,939	374	1,971	14,144
279	Printing trades services.....	157	19	1,535	11,824	1,172	2,265	9,400	18,196	522	1,619	15,624
28	Chemicals and allied products...	728	210	20,097	129,184	11,760	23,397	65,788	444,582	24,636	17,657	337,192
285	Paints and allied products.....	139	48	3,839	25,566	1,970	4,103	11,564	68,946	1,418	3,160	50,514
289	Miscellaneous chemical products.....	137	26	1,895	11,928	1,099	2,279	5,732	29,979	1,269	1,669	22,984
29	Petroleum and coal products....	89	32	9,333	68,004	6,521	12,754	43,650	205,268	23,547	11,484	142,435
295	Paving and roofing materials..	34	13	1,148	7,715	780	1,725	4,755	18,069	541	1,243	16,553

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture, new ²	All employ-ees, number	Value added by manufacture (\$1,000)	
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
LOS ANGELES-LONG BEACH SMSA—Continued												
30	Rubber and plastics products, n.e.c.....	521	195	21,866	128,996	17,065	33,772	89,106	254,210	15,732	19,385	206,263
301	Tires and inner tubes.....	16	9	6,238	46,429	4,690	9,445	33,589	86,087	3,682	7,859	101,911
307	Plastics products, n.e.c.....	402	137	10,734	54,376	8,687	16,788	36,766	108,931	9,529	7,082	59,023
32	Stone, clay and glass products.	550	171	19,983	122,038	15,182	30,712	83,338	243,668	16,617	18,535	189,919
326	Pottery and related products.	122	31	3,171	13,882	2,759	5,117	11,077	22,276	793	3,584	23,915
327	Concrete and plaster products	178	56	4,663	32,695	3,050	6,197	19,829	67,365	5,001	4,308	49,292
33	Primary metal industries.....	465	203	25,133	163,982	20,120	41,647	120,943	274,364	15,600	23,508	221,509
334	Secondary nonferrous metals..	28	10	975	6,371	624	1,275	3,576	12,662	(Z)	1,032	8,869
336	Nonferrous foundries.....	191	68	5,408	31,196	4,452	9,237	23,785	54,281	1,879	5,047	42,516
34	Fabricated metal products.....	2,150	625	55,022	349,805	41,784	87,394	234,399	614,016	26,574	53,133	515,011
342	Cutlery, hand tools, hardware	188	63	6,727	41,990	4,852	10,108	24,926	78,176	3,261	6,446	65,505
343	Plumbing and heating, except electric.....	89	37	4,734	29,941	3,679	7,543	20,443	56,659	3,003	3,866	36,835
344	Structural metal products....	631	203	16,171	107,328	11,727	23,360	69,536	178,413	6,494	17,840	170,314
345	Screw machine products.....	198	55	5,058	34,087	3,817	8,509	23,467	61,673	2,162	4,492	55,295
347	Metal services, n.e.c.....	499	94	6,615	35,634	5,424	12,340	26,618	57,186	2,794	5,914	45,572
349	Fabricated metal products, n.e.c.....	199	66	6,060	40,982	4,514	9,383	24,231	70,589	2,903	4,673	47,647
35	Machinery, except electrical... Construction and like equipment.....	2,942	511	57,326	390,747	38,430	79,827	231,396	701,463	27,932	49,044	471,150
354	Metalworking machinery.....	183	70	7,172	48,717	4,751	9,762	28,620	106,305	2,356	8,263	83,593
355	Special industry machinery...	562	98	7,939	58,453	6,180	13,228	42,310	99,781	3,835	6,931	68,206
356	General industrial machinery...	169	34	4,729	27,719	3,409	7,061	17,279	46,731	1,379	3,633	34,191
358	Service industry machines....	339	86	13,491	100,576	6,971	14,375	40,990	160,621	6,467	9,151	97,717
359	Miscellaneous machinery.....	164	41	3,428	21,539	2,402	4,803	13,577	32,470	713	4,220	36,231
36	Electrical machinery.....	1,435	144	12,731	82,966	10,259	21,526	63,446	139,765	7,736	12,101	114,022
364	Lighting and wiring devices..	1,146	449	86,937	586,203	57,465	117,684	317,490	948,310	35,125	57,370	506,520
367	Electronic components.....	244	89	7,585	43,130	5,840	11,590	28,091	83,782	2,900	7,698	69,762
37	Transportation equipment.....	282	124	21,585	121,730	15,434	30,534	73,686	211,656	9,159	11,056	86,876
371	Motor vehicles and equipment.	858	327	137,542	1,119,474	84,963	177,584	586,812	1,817,922	68,451	183,346	1,424,522
372	Aircraft and parts.....	263	99	17,808	132,596	14,193	32,580	99,825	397,742	19,924	17,321	205,981
373	Ship and boat building.....	406	165	112,092	942,773	64,406	132,711	452,158	1,354,471	47,033	159,402	1,572,200
379	Transportation equipment, n.e.c.....	77	13	3,141	20,398	2,618	4,894	17,008	27,085	(Z)	2,833	21,607
38	Instruments and related products	90	47	4,129	21,843	3,442	6,814	16,574	35,487	1,064	3,302	22,510
381	Scientific instruments.....	394	112	18,167	122,031	12,913	27,703	77,513	202,398	9,756	14,831	152,725
384	Medical instruments and supplies.....	74	26	2,730	19,188	1,811	3,721	10,686	29,933	890	4,011	40,800
39	Miscellaneous manufacturing, including ordnance ³	117	17	2,291	13,404	1,552	3,037	6,858	23,086	2,172	1,432	14,551
394	Toys and sporting goods.....	833	181	87,702	697,018	49,601	98,650	327,032	1,144,896	39,848	60,576	628,920
395	Pens, pencils and office supplies.....	183	47	8,103	37,961	6,177	11,532	22,426	99,896	4,464	4,238	38,034
--	Administrative and auxiliary ⁴ ..	62	15	1,559	8,634	1,192	2,484	5,623	17,337	798	1,574	17,155
--		-	-	16,454	161,063	-	-	-	-	-	15,511	-
SAN DIEGO SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	911	189	60,058	451,568	30,012	58,403	185,777	711,758	14,332	71,383	605,526
20	Food and kindred products.....	107	36	4,160	26,039	2,263	3,958	11,878	55,506	2,436	4,534	49,680
202	Dairies.....	15	8	1,009	7,272	392	812	2,704	14,893	(Z)	965	13,496
205	Bakery products.....	19	10	940	6,795	404	776	2,723	10,194	(Z)	922	10,189
208	Beverages.....	12	6	537	3,664	141	275	865	7,579	658	384	4,239
23	Apparel and related products...	44	8	1,805	6,790	1,636	2,989	5,406	10,568	(Z)	1,215	5,570
239	Fabricated textiles, n.e.c....	27	4	281	953	245	409	729	1,286	(Z)	178	660
24	Lumber and wood products.....	51	4	419	2,534	376	678	2,120	3,634	(Z)	263	2,772
243	Millwork and related products	33	3	313	2,047	280	505	1,727	2,793	(Z)	200	2,033
25	Furniture and fixtures.....	56	13	614	3,598	508	1,070	2,702	5,866	(Z)	589	4,461
251	Household furniture.....	40	8	390	1,804	343	724	1,510	3,247	(Z)	347	2,544
27	Printing and publishing.....	139	21	2,764	17,690	1,619	2,951	9,783	32,669	833	2,283	28,031
271	Newspapers.....	30	9	1,743	11,116	845	1,539	5,025	22,888	(Z)	1,369	16,946
275	Commercial printing.....	75	7	611	4,134	499	906	3,164	6,223	(Z)	443	3,962
28	Chemicals and allied products..	23	6	431	2,769	288	588	1,651	10,177	602	358	7,432
32	Stone, clay and glass products.	62	13	800	5,197	438	904	2,718	12,791	969	737	8,703
327	Concrete and plaster products	45	7	580	4,045	256	527	1,819	11,297	846	581	7,248
34	Fabricated metal products.....	80	16	1,047	5,828	826	1,627	4,319	9,731	(Z)	709	5,695
344	Structural metal products....	34	10	566	3,330	425	826	2,399	5,140	(Z)	405	3,307
35	Machinery, except electrical...	97	14	3,521	26,751	2,248	4,444	14,922	35,628	1,051	1,099	9,917
359	Miscellaneous machinery.....	47	5	412	2,464	313	617	1,635	3,904	(Z)	261	1,869
36	Electrical machinery.....	69	21	3,339	24,248	2,237	4,404	13,135	40,241	1,201	1,029	9,120
37	Transportation equipment.....	56	19	12,911	95,448	9,490	18,617	61,323	193,361	2,398	46,401	372,183
373	Ship and boat building.....	17	6	2,197	14,620	1,978	3,865	11,862	27,017	(Z)	1,249	11,507
39	Miscellaneous manufacturing, including ordnance ³	53	9	25,643	212,397	7,458	14,967	52,708	297,084	3,263	10,516	90,185
--	Administrative and auxiliary ⁴ ..	-	-	1,794	17,616	-	-	-	-	-	516	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
SAN FRANCISCO-OAKLAND SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	4,749	1,312	194,084	1,359,179	126,861	245,084	770,671	2,566,720	190,215	189,700	2,049,371
20	Food and kindred products.....	562	222	34,097	220,189	23,019	43,913	130,882	592,864	27,953	35,881	497,364
201	Meat products.....	73	29	2,977	21,532	2,168	4,525	14,670	37,054	2,557	3,519	37,107
202	Dairies.....	70	24	3,320	23,134	1,184	2,432	8,171	48,512	1,471	4,044	44,571
204	Grain mill products.....	25	8	1,076	7,284	811	1,721	5,188	30,877	1,032	1,042	20,577
205	Bakery products.....	101	44	7,123	50,819	3,970	7,520	23,538	87,578	2,757	6,345	69,835
208	Beverages.....	62	27	3,297	23,434	1,979	3,644	13,108	86,302	6,720	3,809	81,366
209	Miscellaneous Foods and kindred products.....	116	35	4,352	31,897	2,465	5,044	17,251	129,723	4,360	4,835	89,283
22	Textile mill products.....	35	13	815	4,083	632	1,262	2,742	5,893	(Z)	909	7,791
229	Miscellaneous textile goods..	11	6	353	2,213	242	530	1,258	3,185	(Z)	392	4,860
23	Apparel and related products...	371	108	7,853	28,855	6,671	11,126	20,518	53,149	834	8,040	47,077
232	Men's and boys' furnishings...	34	13	1,041	3,641	911	1,542	2,801	9,269	(Z)	1,529	10,477
233	Women's and misses' outerwear	172	62	4,622	16,725	3,940	6,376	11,455	31,320	569	4,075	22,858
239	Fabricated textiles, n.e.c....	112	18	1,286	5,000	1,008	1,852	3,801	7,380	(Z)	1,485	8,904
24	Lumber and wood products.....	176	30	2,139	12,281	1,760	3,377	9,524	19,835	1,466	1,771	14,261
243	Millwork and related products	92	17	1,017	6,530	789	1,520	4,759	10,704	(Z)	873	6,928
249	Miscellaneous wood products..	46	7	722	3,747	626	1,226	3,120	6,012	(Z)	739	2,650
25	Furniture and fixtures.....	242	57	4,824	30,566	3,887	7,673	22,899	50,345	9,033	4,216	37,112
251	Household furniture.....	134	35	3,392	20,205	2,791	5,483	15,400	33,832	598	3,086	27,579
254	Partitions and fixtures.....	70	16	1,033	7,847	791	1,578	5,599	12,305	(Z)	875	7,449
259	Furniture and fixtures, n.e.c. n.e.c.....	26	5	305	1,861	236	461	1,429	3,133	(Z)	215	1,698
26	Paper and allied products.....	100	66	7,702	50,283	6,116	12,227	36,440	94,184	7,409	7,497	82,911
264	Paper and paperboard products	48	27	2,796	17,461	2,171	4,349	12,152	31,000	3,739	2,889	28,586
265	Paperboard containers and boxes.....	42	31	3,453	22,747	2,767	5,563	16,276	35,043	2,198	3,366	36,772
27	Printing and publishing.....	758	142	18,790	127,995	12,138	21,707	82,701	213,744	7,598	18,529	173,079
271	Newspapers.....	87	34	7,910	53,046	4,495	7,978	31,490	76,441	2,182	7,224	60,887
272	Periodicals.....	54	7	462	2,666	85	135	488	7,989	(Z)	783	8,004
273	Books.....	46	10	728	4,769	278	518	1,851	11,530	(Z)	197	2,416
275	Commercial printing.....	409	57	6,366	45,475	4,943	8,804	32,884	76,437	3,836	7,237	69,990
276	Manifold business forms.....	14	8	1,557	10,081	1,022	1,833	7,267	22,098	787	1,569	17,389
278	Bookbinding and related work.	35	7	618	3,767	521	958	2,987	6,096	(Z)	361	2,987
279	Printing trades services.....	80	17	893	7,001	637	1,230	5,062	10,685	(Z)	931	9,456
28	Chemicals and allied products..	288	91	10,207	73,421	6,074	11,857	38,785	210,508	18,482	10,609	178,170
281	Basic chemicals.....	53	33	3,871	30,164	2,286	4,444	15,813	80,030	13,813	3,826	69,163
284	Cleaming and toilet goods....	56	10	1,138	7,357	712	1,354	4,027	37,036	1,011	1,232	27,635
285	Paints and allied products....	70	19	2,158	15,192	1,335	2,679	8,811	41,399	1,504	2,150	30,951
287	Agricultural chemicals.....	15	8	546	3,442	336	630	1,921	10,619	(Z)	691	13,309
289	Miscellaneous chemical products.....	54	14	1,346	9,058	889	1,763	5,362	28,411	777	1,873	28,497
29	Petroleum and coal products...	35	10	6,523	51,189	4,719	8,934	34,003	224,992	23,101	7,435	141,029
291	Petroleum refining.....	10	5	6,000	47,583	4,309	8,133	31,356	212,843	22,752	6,710	129,884
30	Rubber and plastics products, n.e.c.....	103	27	2,157	12,790	1,653	3,225	8,382	27,962	1,070	2,068	24,472
307	Plastics products, n.e.c....	83	15	1,066	5,839	862	1,645	4,125	14,391	837	668	8,076
32	Stone, clay and glass products.	207	64	7,259	47,494	5,579	11,243	34,884	94,535	8,697	6,763	82,251
322	Pressed and blown glassware..	7	5	2,938	19,495	2,572	5,155	16,496	33,607	1,999	2,450	30,185
325	Structural clay products.....	11	8	525	2,748	439	859	2,041	4,988	(Z)	418	3,820
327	Concrete and plaster products	120	37	2,354	16,197	1,485	3,095	9,827	37,154	4,939	1,996	24,303
329	Nonmetallic mineral products.	33	8	541	3,388	392	762	2,245	7,017	(Z)	544	6,730
33	Primary metal industries.....	110	53	10,208	72,674	8,035	15,353	53,606	157,324	19,363	10,762	146,530
331	Steel rolling and finishing....	15	8	5,360	40,767	4,201	7,663	30,294	92,015	(D)	6,165	102,643
332	Iron and steel foundries.....	24	15	2,068	12,786	1,763	3,438	10,248	22,922	887	2,069	18,779
334	Secondary nonferrous metals..	11	4	319	2,246	176	363	1,139	4,364	(Z)	346	4,470
335	Nonferrous rolling and drawing.....	10	8	1,099	7,714	854	1,806	5,416	19,394	1,405	693	7,085
34	Fabricated metal products.....	500	162	19,420	133,592	14,972	29,635	95,163	245,727	15,549	20,192	208,002
341	Metal cems.....	13	11	3,722	27,006	3,300	6,756	23,251	61,299	6,361	3,386	45,479
342	Cutlery, hand tools, hardware	36	4	1,933	12,465	1,448	2,926	8,515	23,383	2,406	1,867	17,703
343	Plumbing and heating, except electric.....	25	10	1,301	8,453	997	1,937	5,975	16,402	1,134	1,515	13,473
345	Screw machine products.....	31	6	472	3,126	389	836	2,308	5,596	(Z)	456	4,165
346	Metal stampings.....	34	8	760	4,923	620	1,194	3,758	9,025	(Z)	561	5,966
347	Metal services, n.e.c....	92	18	1,042	6,487	867	1,721	5,213	11,993	(Z)	813	5,868
348	Fabricated wire products, n.e.c.....	22	6	452	2,467	338	584	1,706	3,819	(Z)	706	4,872
349	Fabricated metal products, n.e.c.....	51	25	2,691	19,128	1,881	3,885	12,196	34,239	1,665	2,477	25,323
35	Machinery, except electrical...	560	93	12,140	83,997	8,540	16,844	55,414	143,429	7,483	12,767	134,195
351	Engines and turbines.....	7	3	389	2,967	248	560	1,953	7,154	(Z)	1,098	12,479
353	Construction and like equipment.....	41	11	1,716	11,498	1,217	2,295	7,171	24,055	876	1,639	17,121
354	Metalworking machinery.....	84	10	1,412	10,365	1,067	2,088	7,538	17,758	554	1,261	11,855
355	Special industry machinery...	53	19	1,249	9,171	897	1,780	5,634	19,903	(Z)	1,449	14,410
356	General industrial machinery.	86	19	2,183	14,721	1,442	2,847	6,260	25,625	558	1,891	18,993
358	Service industry machines....	50	7	686	4,641	472	943	2,723	8,268	(Z)	565	6,668

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ² (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
SAN FRANCISCO-OAKLAND SMSA—Continued												
36	Electrical machinery.....	220	68	15,418	110,139	9,222	18,642	55,236	189,002	9,914	10,993	112,503
361	Electric distribution products.....	37	16	1,763	12,373	1,021	1,964	6,114	25,986	640	1,670	21,835
362	Electric industrial apparatus	29	13	822	5,597	516	1,022	2,866	10,058	(Z)	412	4,919
364	Lighting and wiring devices..	38	8	868	5,108	634	1,205	3,094	10,238	(Z)	1,639	18,015
367	Electronic components.....	48	13	3,926	27,649	2,799	5,990	17,059	38,181	3,005	4,589	42,138
37	Transportation equipment.....	146	49	13,230	97,664	9,970	20,585	68,512	179,781	34,114	11,988	113,148
371	Motor vehicles and equipment.	70	26	6,357	46,677	4,951	10,891	34,670	101,803	(D)	4,120	46,512
373	Ship and boat building.....	57	16	4,737	33,406	3,986	7,683	27,019	46,235	(Z)	5,890	46,080
38	Instruments and related products	92	20	2,347	12,966	1,301	2,582	7,533	18,666	1,721	1,270	11,395
381	Scientific instruments.....	15	4	299	1,919	252	474	1,107	2,807	(Z)	262	2,853
382	Mechanical measuring devices.	14	5	1,063	3,741	362	765	1,782	4,551	(D)	472	5,035
384	Medical instruments and supplies.....	37	6	504	3,518	342	692	2,256	5,266	(Z)	223	1,908
39	Miscellaneous manufacturing, including ordnance ³	212	30	2,794	16,673	1,880	3,541	9,807	37,834	1,110	3,485	29,065
395	Pens, pencils and office supplies.....	24	3	748	4,517	404	752	1,800	16,768	(Z)	148	1,335
398	Miscellaneous manufactures ³ ..	115	23	1,625	9,948	1,135	2,162	6,354	16,485	(Z)	2,806	24,284
399												
190	Administrative and auxiliary ⁴ ..	-	-	15,220	166,805	-	-	-	-	-	13,559	-
SAN JOSE SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	1,070	327	98,465	765,877	48,789	97,086	289,799	1,203,786	65,696	53,921	631,557
20	Food and kindred products.....	145	78	13,353	68,109	10,838	19,684	48,466	179,506	8,799	12,122	132,987
201	Meat products.....	11	7	327	2,121	249	467	1,413	4,775	(Z)	268	2,821
202	Dairies.....	14	9	714	5,247	223	454	1,402	7,939	(Z)	740	8,994
203	Canned and frozen foods.....	60	37	9,722	43,720	8,763	15,632	36,433	120,929	6,180	8,881	93,709
205	Bakery products.....	12	7	682	5,211	363	665	2,325	9,423	(Z)	642	7,253
208	Beverages.....	21	10	1,172	7,180	685	1,334	3,732	23,842	873	950	13,222
209	Miscellaneous foods and kindred products.....	17	4	304	1,914	202	413	1,197	5,070	590	216	2,057
24	Lumber and wood products.....	44	7	654	3,844	551	1,030	2,990	6,821	(Z)	480	3,971
243	Millwork and related products	29	6	403	2,664	324	605	2,016	5,531	(Z)	211	2,228
25	Furniture and fixtures.....	35	8	465	2,807	396	755	2,298	5,090	(Z)	719	3,983
251	Household furniture.....	16	6	301	1,810	261	491	1,463	3,268	(Z)	652	3,387
26	Paper and allied products.....	24	14	1,711	11,029	1,325	2,631	7,784	25,660	845	1,111	15,339
264	Paper and paperboard products	12	7	831	5,438	639	1,207	3,731	13,650	605	499	7,363
27	Printing and publishing.....	135	24	3,113	20,446	1,735	3,233	11,272	41,704	1,445	2,279	22,122
271	Newspapers.....	18	6	1,401	9,668	641	1,141	4,741	19,029	(Z)	1,045	10,309
273	Books.....	12	4	538	2,982	273	558	1,239	6,550	518	396	4,344
275	Commercial printing.....	67	9	719	5,013	558	1,048	3,679	7,910	(Z)	502	4,102
28	Chemicals and allied products..	41	10	761	5,223	421	863	2,643	25,696	2,886	771	15,109
30	Rubber and plastics products, n.e.c.....	18	6	738	4,389	590	1,165	3,092	7,576	612	210	1,847
32	Stone, clay and glass products.	56	22	2,494	15,777	1,649	3,479	11,081	45,646	3,470	2,192	38,856
327	Concrete and plaster products	34	14	718	4,396	424	844	2,504	8,035	879	570	7,084
33	Primary metal industries.....	22	9	512	3,383	417	823	2,518	6,520	(Z)	551	6,575
34	Fabricated metal products.....	98	20	1,702	11,364	1,358	2,718	8,799	23,210	1,365	2,191	27,916
344	Structural metal products....	36	6	691	4,671	553	1,070	3,697	8,083	509	966	11,849
35	Machinery, except electrical...	200	40	7,531	66,401	3,555	6,380	21,495	60,613	7,865	8,124	80,968
352	Farm machinery and equipment.	10	2	509	3,585	342	682	2,150	4,983	(Z)	509	4,460
354	Metalworking machinery.....	25	4	255	1,710	214	458	1,427	2,360	(Z)	261	1,724
355	Special industry machinery....	12	5	593	4,248	352	694	2,365	5,537	(D)	684	5,814
359	Miscellaneous machinery.....	106	13	893	6,527	1,105	1,448	5,077	9,653	571	390	3,705
36	Electrical machinery.....	124	59	18,025	128,610	10,578	22,064	61,468	227,335	16,784	5,956	66,916
362	Electric industrial apparatus	7	1	263	1,989	173	367	1,183	4,527	(Z)	418	5,779
367	Electronic components.....	50	25	10,317	71,179	5,625	12,023	32,230	118,220	11,877	2,875	26,064
38	Instruments and related products	28	7	994	7,539	610	1,280	4,302	17,427	(Z)	290	2,641
384	Medical instruments and supplies.....	10	4	753	5,532	407	847	2,688	14,099	(Z)	252	2,308
--	Administrative and auxiliary ⁴ ..	-	-	4,016	35,327	-	-	-	-	-	2,544	-

- Represents zero. n.e.c. Not elsewhere classified. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.
¹Revised.

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which serve the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.



1963 CENSUS OF MANUFACTURES



MC63(P)-S6

Area series

COLORADO

preliminary
report

Value added by manufacturing in 1963 in the State of Colorado amounted to \$1,203 million, an increase of 4 percent from 1962 and 54 percent from 1958. The Denver Standard Metropolitan Statistical Area, with a value added of \$930 million accounted for 77 percent of Colorado's total value added.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufac- ture (\$1,000)	Capital expend- itures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employ- ees, number	Value added by manufac- ture
1963.....	2,409	573	92,659	591,473	64,159	128,753	368,907	1,202,958	68,032	119	154
1962 ³	(NA)	(NA)	84,350	587,697	64,739	133,684	370,375	1,151,831	83,082	127	147
1961 ³	(NA)	(NA)	92,532	548,924	62,856	129,036	340,775	984,061	59,096	124	126
1960 ³	(NA)	(NA)	88,835	511,112	61,364	125,251	321,714	931,215	60,243	116	119
1959 ³	(NA)	(NA)	84,669	463,238	58,611	119,596	295,892	858,351	44,846	109	110
1958.....	2,242	535	77,574	405,301	55,084	111,966	265,209	781,943	50,713	100	100

(NA) Not available. ^rRevised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COLORADO, TOTAL.....	2,409	573	92,659	591,473	64,159	128,753	368,907	1,202,958	68,032	77,574	781,943
STANDARD METROPOLITAN STATISTICAL AREAS											
Colorado Springs ⁴	141	31	3,679	19,693	2,382	4,554	10,603	34,367	3,039	3,327	25,709
Denver ⁵	1,445	408	68,400	457,548	45,788	91,804	275,667	929,610	51,607	53,690	562,850
Pueblo ⁶	88	25	8,885	58,422	7,017	13,497	43,593	99,060	2,612	9,694	98,336
COUNTIES ¹											
Adams.....	100	36	5,471	33,857	3,412	7,020	19,501	78,153	2,885	4,410	54,867
Arapahoe.....	148	35	3,795	22,080	2,441	5,112	12,642	40,043	1,822	3,011	26,970
Boulder.....	126	26	1,972	9,710	1,465	2,754	6,394	19,992	1,830	1,241	10,839
Delta.....	25	5	396	1,683	322	727	1,345	3,886	(Z)	311	1,763
Denver.....	952	290	37,124	227,081	25,843	50,701	135,845	444,966	19,711	36,118	339,799
El Paso.....	141	31	3,679	19,693	2,382	4,554	10,603	34,367	3,039	3,327	25,709
Jefferson.....	119	21	20,038	164,820	12,627	26,217	101,285	346,456	25,359	8,910	130,375
La Plata.....	20	6	304	1,454	201	477	840	2,292	(Z)	345	2,440
Larimer.....	114	18	2,509	12,517	1,869	3,749	8,026	35,487	2,259	1,975	20,040
Logan.....	22	2	273	1,344	208	414	962	4,182	(Z)	282	2,415
Mesa.....	59	11	883	4,736	601	1,267	3,041	10,167	1,123	987	8,187
Morgan.....	15	4	324	1,690	229	482	1,099	6,340	(Z)	313	3,934
Otero.....	40	8	1,127	4,627	975	2,134	3,757	7,225	882	1,066	6,024
Pueblo.....	88	25	8,885	58,422	7,017	13,497	43,593	99,060	2,612	9,694	98,336
Weld.....	89	19	2,330	11,780	1,785	3,727	8,473	33,862	2,793	1,722	18,354

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The Colorado Springs Standard Metropolitan Statistical Area is coextensive with El Paso County, Colorado.

⁵The Denver Standard Metropolitan Statistical Area consists of Adams, Arapahoe, Boulder, Denver, and Jefferson Counties, Colorado.

⁶The Pueblo Standard Metropolitan Statistical Area is coextensive with Pueblo County, Colorado.

Table 3.--GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ² (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,409	573	92,659	591,473	64,159	128,753	368,907	1,202,958	68,032	77,574	781,943
20	Food and kindred products.....	465	155	18,606	103,823	12,556	26,014	65,002	255,895	24,053	17,451	175,882
201	Meat products.....	74	26	4,605	28,705	3,731	7,318	22,547	49,064	1,729	3,825	36,411
202	Dairies.....	88	31	2,473	13,783	932	1,966	4,867	30,471	1,355	3,007	27,775
203	Canned and frozen foods.....	33	10	1,106	3,600	984	2,097	2,956	6,476	(Z)	1,161	6,483
207	Candy and related products....	12	2	499	1,553	460	829	1,376	3,766	(Z)	492	1,897
208	Beverages.....	50	17	2,424	17,625	1,099	2,497	7,487	56,148	12,770	1,619	27,735
209	Miscellaneous foods and kindred products.....	58	17	1,132	5,267	800	1,481	2,980	12,225	1,306	1,025	9,093
23	Apparel and related products....	75	26	1,792	6,055	1,520	2,782	4,459	9,447	(Z)	1,505	8,270
232	Men's and boys' furnishings....	10	8	670	2,110	579	1,029	1,529	2,550	(Z)	520	3,288
239	Fabricated textiles, nec.....	45	10	542	1,943	428	812	1,316	3,449	(Z)	306	1,770
24	Lumber and wood products.....	235	26	2,419	9,340	2,131	4,573	7,771	15,937	1,650	2,642	12,801
241	Logging camps and contractors..	49	1	286	788	256	553	699	1,703	(Z)	178	800
242	Sawmills and planing mills....	122	16	1,418	5,625	1,283	2,792	4,782	8,891	1,068	1,593	7,772
243	Millwork and related products..	47	5	361	1,601	289	558	1,217	2,731	(Z)	438	2,428
25	Furniture and fixtures.....	80	17	1,060	5,605	860	1,707	4,080	9,855	(Z)	1,325	10,165
251	Household furniture.....	45	11	720	3,465	582	1,144	2,492	6,738	(Z)	712	5,895
26	Paper and allied products.....	28	15	1,075	5,903	844	1,801	3,899	12,983	553	843	9,017
265	Paperboard containers and boxes.....	15	10	600	3,228	478	992	2,170	7,532	(Z)	461	4,278
27	Printing and publishing.....	409	57	7,671	43,575	4,801	9,032	26,618	76,001	3,012	6,986	54,529
271	Newsprint.....	130	19	3,970	22,100	2,098	3,724	12,490	36,194	1,272	3,619	25,570
272	Periodicals.....	28	4	653	3,822	388	691	1,788	10,147	(Z)	341	4,295
275	Commercial printing.....	198	25	2,481	12,821	1,681	3,417	9,276	20,520	1,253	2,128	17,349
28	Chemicals and allied products...	83	19	1,656	10,180	1,102	2,159	5,884	44,167	1,501	1,966	33,534
281	Basic chemicals.....	16	5	387	2,336	282	573	1,551	4,944	524	423	6,878
285	Paints and allied products....	14	6	286	1,709	137	268	667	4,395	(Z)	373	2,974
289	Miscellaneous chemical products.....	17	2	252	1,531	187	364	1,036	2,995	(Z)	328	3,489
29	Petroleum and coal products....	19	11	976	7,136	714	1,460	4,931	18,648	1,537	808	13,887
291	Petroleum refining.....	12	7	708	5,271	554	1,123	3,995	15,026	1,506	591	10,609
32	Stone, clay and glass products..	203	47	5,004	29,052	3,617	7,515	19,278	63,807	4,656	4,079	43,978
325	Structural clay products.....	11	8	907	4,978	716	1,388	3,262	7,107	773	1,271	9,071
327	Concrete and plaster products..	142	27	2,150	12,353	1,410	2,926	7,398	26,666	2,494	1,443	13,873
33	Primary metal industries:											
332	Iron and steel foundries.....	11	7	704	3,893	625	1,284	3,280	7,046	508	855	6,838
34	Fabricated metal products.....	182	51	4,214	26,330	3,163	6,441	17,417	47,096	2,065	3,991	37,442
342	Cutlery, hand tools, hardware..	11	6	351	1,922	262	542	1,152	4,491	(Z)	293	2,937
344	Structural metal products.....	98	25	2,266	14,342	1,687	3,389	9,626	18,306	518	2,511	21,677
349	Fabricated metal products, n.e.c.....	18	6	758	5,146	516	1,048	2,908	11,710	570	667	6,729
35	Machinery, except electrical....	220	44	5,299	32,556	3,925	7,964	21,796	66,978	2,299	4,678	50,543
352	Farm machinery and equipment..	25	5	425	2,401	327	673	1,525	4,618	(Z)	320	3,374
353	Construction and like equipment.....	35	14	2,093	13,906	1,523	3,107	8,924	33,195	1,036	2,432	26,705
356	General industrial machinery...	25	7	668	4,412	450	1,008	2,801	10,021	(Z)	435	5,960
359	Miscellaneous machinery.....	84	11	1,190	5,886	1,030	1,968	5,016	9,937	(Z)	1,081	11,168
36	Electrical machinery.....	66	24	3,425	18,280	2,400	4,765	10,401	43,068	3,417	1,907	16,137
361	Electric distribution products	16	9	1,786	10,789	1,075	2,178	5,068	27,642	2,032	782	8,790
362	Electric industrial apparatus..	12	4	945	4,009	750	1,401	2,756	8,459	(Z)	759	4,014
38	Instruments and related products	51	9	891	4,969	674	1,359	3,170	9,329	(Z)	488	3,997
384	Medical instruments and supplies.....	25	5	501	2,782	359	711	1,603	4,622	(Z)	259	2,319
39	Miscellaneous manufacturing, including ordnance ³	124	23	4,586	30,913	3,111	6,328	18,556	42,317	(D)	8,753	111,367
394	Toys and sporting goods.....	23	5	589	2,101	498	1,067	1,646	2,508	(Z)	654	3,478
--	Administrative and auxiliary ⁴ ...	-	-	1,314	17,403	-	-	-	-	-	2,032	-

(D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963						1958				
		Establishments, number		All employees		Production workers		Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture	
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)					Wages (\$1,000)
DENVER SMSA (See text for explanation of column captions) ²												
	All industries, total ²	1,445	408	68,400	457,548	45,788	91,804	275,667	929,610	51,607	53,690	562,850
20	Food and kindred products.....	205	97	12,581	74,808	8,213	16,578	45,177	177,981	18,686	11,346	121,533
201	Meat products.....	31	19	3,593	23,604	2,832	5,574	18,184	37,016	1,398	3,244	31,058
202	Dairies.....	41	19	1,616	9,264	603	1,252	3,175	20,077	865	1,765	17,446
204	Grain mill products.....	11	5	422	2,825	305	893	2,112	10,531	(Z)	447	7,187
205	Bakery products.....	40	21	2,757	14,464	1,768	3,449	8,577	35,592	1,718	2,658	24,898
208	Beverages.....	15	10	1,880	15,112	809	1,877	6,289	50,184	12,386	1,096	23,695
209	Miscellaneous foods and kindred products.....	37	15	934	4,328	673	1,241	2,489	10,377	1,204	715	6,685
23	Apparel and related products....	66	25	1,595	5,519	1,340	2,471	4,028	8,844	(Z)	1,504	7,919
232	Men's and boys' furnishings....	9	7	504	1,682	424	764	1,167	2,127	(Z)	452	3,140
233	Women's and misses' outerwear.	7	4	258	816	222	413	649	1,589	(Z)	304	1,460
239	Fabricated textiles, n.e.c....	38	10	515	1,846	406	771	1,256	3,293	(Z)	275	1,568
24	Lumber and wood products.....	52	8	627	2,585	530	1,082	2,041	5,129	(Z)	812	4,241
25	Furniture and fixtures.....	68	16	949	5,237	763	1,554	3,820	9,221	(Z)	911	7,809
251	Household furniture.....	36	10	636	3,259	506	1,030	2,333	6,322	(Z)	665	5,449
27	Printing and publishing.....	255	39	5,698	34,282	3,611	6,809	21,254	60,986	2,260	5,175	41,502
271	Newspapers.....	42	9	2,649	16,170	1,398	2,399	9,268	27,428	795	2,396	17,662
272	Periodicals.....	20	3	386	2,146	183	309	728	6,985	(Z)	322	3,820
275	Commercial printing.....	148	22	1,918	11,578	1,485	3,026	8,438	18,587	1,139	1,868	15,711
28	Chemicals and allied products...	64	15	1,230	7,675	791	1,552	4,211	39,509	1,068	1,385	25,763
29	Petroleum and coal products....	14	8	716	5,050	509	1,027	3,433	13,600	790	577	10,552
291	Petroleum refining.....	8	5	513	3,707	404	799	2,870	10,170	634	402	7,750
32	Stone, clay and glass products..	97	27	3,181	18,461	2,252	4,775	12,003	31,659	2,558	2,328	18,205
325	Structural clay products.....	7	6	822	4,549	648	1,256	2,933	6,191	667	1,006	7,095
327	Concrete and plaster products.	63	17	1,178	6,724	768	1,564	4,016	13,959	1,124	765	7,109
33	Primary metal industries.....	34	11	961	5,123	816	1,664	4,035	11,844	559	1,145	10,018
332	Iron and steel foundries.....	9	6	600	3,293	526	1,093	2,732	5,425	507	743	5,738
34	Fabricated metal products.....	143	43	3,694	23,044	2,786	5,718	15,671	41,742	1,558	3,573	33,249
342	Cutlery, hand tools, hardware.	8	5	320	1,757	235	491	1,048	4,147	(Z)	229	2,078
344	Structural metal products.....	78	21	1,987	12,381	1,517	3,071	8,865	15,510	(Z)	2,223	18,691
349	Fabricated metal products, n.e.c.....	10	4	577	4,161	360	734	2,164	9,736	(Z)	619	6,137
35	Machinery, except electrical....	143	35	3,773	23,957	2,699	5,563	15,661	49,601	1,606	3,520	40,009
352	Farm machinery and equipment..	12	3	261	1,588	198	397	945	3,017	(Z)	217	2,613
353	Construction and like equipment.....	23	11	1,688	11,067	1,269	2,569	7,579	26,903	843	1,980	21,324
359	Miscellaneous machinery.....	45	9	563	2,913	470	987	2,375	4,350	(Z)	525	7,248
36	Electrical machinery.....	51	15	1,795	11,146	1,171	2,335	6,112	25,731	1,384	1,113	12,276
361	Electric distribution products.....	11	5	1,210	7,866	698	1,426	3,695	19,048	(Z)	782	8,790
38	Instruments and related products	38	7	732	4,185	547	1,104	2,625	7,917	(Z)	450	3,715
384	Medical instruments and supplies.....	18	4	429	2,373	311	614	1,375	3,930	(Z)	236	2,152
--	Administrative and auxiliary ³ ...	-	-	937	14,517	-	-	-	-	-	1,602	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS





1963 CENSUS OF MANUFACTURES



MC63(P)-S7

Area series

CONNECTICUT

preliminary report

Value added by manufacturing in 1963 in the State of Connecticut amounted to \$4,478 million, an increase of 6 percent from 1962 and 40 percent from 1958. Of this total, \$896 million was contributed by the transportation equipment industries and \$683 million by the non-electrical machinery industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963	5,516	1,988	418,706	2,574,734	294,174	602,999	1,567,798	4,477,894	212,905	106	140
1962 ³	(NA)	(NA)	418,436	2,462,687	298,441	606,656	1,528,214	4,209,954	224,007	106	132
1961 ³	(NA)	(NA)	405,626	2,282,415	289,829	584,545	1,419,200	3,885,778	171,210	103	122
1960 ³	(NA)	(NA)	409,328	2,237,235	296,197	595,309	1,412,997	3,784,568	197,973	104	119
1959 ³	(NA)	(NA)	408,486	2,184,777	298,684	608,726	1,409,252	3,803,388	169,342	104	119
1958	5,248	1,873	393,795	1,964,636	284,532	563,309	1,254,119	3,188,921	195,204	100	100

(NA) Not available.

^rRevised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CONNECTICUT, TOTAL.....	5,516	1,988	418,706	2,574,734	294,174	602,999	1,567,798	4,477,894	212,905	^r 393,795	3,188,921
STANDARD METROPOLITAN STATISTICAL AREAS											
Bridgeport ⁴	825	300	67,583	420,733	47,141	97,422	260,611	770,916	31,206	64,749	570,915
Hartford ⁵	926	309	89,478	584,734	57,543	120,645	329,283	972,092	40,716	88,533	722,875
Meriden ⁶	124	40	7,355	44,958	5,617	11,550	32,372	76,683	3,085	8,594	63,914
New Britain ⁷	369	117	29,868	172,239	22,425	44,845	115,644	306,909	17,811	^r 31,445	240,218
New Haven ⁸	726	280	42,990	252,687	30,751	62,043	156,049	414,623	27,613	42,527	331,572
New London-Groton-Norwich ⁹	213	90	30,179	210,145	22,504	49,140	128,392	311,258	17,961	23,382	190,144
Norwalk ¹⁰	275	108	17,389	107,729	11,116	21,184	54,679	180,595	8,367	14,271	114,122
Springfield-Holyoke ¹¹	965	388	68,800	387,238	50,180	99,734	242,659	679,775	28,636	^r 71,838	^r 597,404
Portion in Massachusetts.....	957	386	68,471	385,762	49,890	99,124	241,518	677,329	28,599	^r 71,425	^r 593,879
Portion in Connecticut.....	8	2	329	1,476	290	610	1,141	2,446	(Z)	413	3,525
Stanford ¹²	344	121	23,365	158,981	12,190	24,381	68,008	284,224	11,654	19,040	175,813
Waterbury ¹³	463	167	37,745	222,904	28,576	57,577	150,312	423,049	15,519	37,411	301,555
COUNTIES ¹											
Fairfield.....	1,566	581	114,027	715,886	74,671	151,141	400,048	1,280,109	51,368	104,138	906,917
Hartford.....	1,367	451	127,065	811,738	85,631	177,317	482,234	1,359,109	64,787	124,162	990,179
Litchfield.....	298	104	15,746	83,369	12,363	24,969	57,220	161,144	10,268	16,063	118,357
Middlesex.....	243	93	12,522	70,516	9,160	18,594	43,583	146,693	5,517	11,762	90,018
New Haven.....	1,536	561	102,555	610,096	76,028	154,411	402,352	1,082,610	56,094	^r 100,676	804,642
New London.....	246	99	30,843	213,190	23,064	50,255	130,625	317,077	18,481	23,765	192,333
Tolland.....	99	29	3,152	14,378	2,577	5,237	10,686	25,203	1,674	2,921	20,058
Windham.....	161	70	12,796	55,561	10,680	21,075	41,050	109,949	4,716	10,308	66,411

(Z) Less than \$500 thousand. ^rRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Bridgeport Standard Metropolitan Statistical Area consists of Bridgeport and Shelton cities and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County, and Milford town in New Haven County, Conn.⁵The Hartford Standard Metropolitan Statistical Area consists of Hartford city and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County, Cromwell town in Middlesex County, and Andover, Bolton, Coventry, Ellington, and Vernon towns and Rockville city in Tolland County, Conn.⁶The Meriden Standard Metropolitan Statistical Area consists of Meriden city in New Haven County, Conn.⁷The New Britain Standard Metropolitan Statistical Area consists of New Britain city and Berlin, Plainville, and Southington towns in Hartford County, Conn.⁸The New Haven Standard Metropolitan Statistical Area consists of New Haven city and Bethany, Branford, East Haven, Guilford, Hamden, North Brandford, North Haven, Orange, West Haven, and Woodbridge towns in New Haven County, Conn.⁹The New London-Groton-Norwich Standard Metropolitan Statistical Area consists of New London and Norwich cities, East Lyme town, Jewett city borough in Griswold town, Groton borough in Groton town, Ledyard, Lisbon, Montville, Old Lyme, Preston, Sprague, Stonington, and Waterford towns in New London County, Conn.¹⁰The Norwalk Standard Metropolitan Statistical Area consists of Norwalk city and Westport and Wilton towns in Fairfield County, Conn.¹¹The Springfield-Holyoke Standard Metropolitan Statistical Area consists of Chicopee, Holyoke, Springfield, and Westfield cities and Agawan, East Longmeadow, Hamden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County, Northampton city and Easthampton, Granby, Hadley, and South Hadley towns in Hampshire County, and Warren town in Worcester County, Mass., also Somers town in Tolland County, Conn.¹²The Stamford Standard Metropolitan Statistical Area consists of Stamford city and Darien, Greenwich, and New Canaan towns in Fairfield County, Conn.¹³The Waterbury Standard Metropolitan Statistical Area consists of Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott towns in New Haven County, and Thomaston, Watertown and Woodbury towns in Litchfield County, Conn.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufac-ture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	5,516	1,988	418,706	2,574,734	294,174	602,999	1,567,798	4,477,894	212,905	393,795	3,188,921
20	Food and kindred products.....	408	116	11,304	63,936	6,028	12,374	30,083	170,021	7,728	13,204	141,361
201	Meat products.....	39	12	1,341	6,998	1,013	2,166	5,062	12,286	(Z)	1,590	10,078
202	Dairies.....	133	36	3,501	21,950	1,274	2,548	6,582	50,800	3,232	4,629	46,271
203	Canned and frozen foods.....	22	4	298	1,273	234	456	892	9,238	(Z)	315	3,375
208	Beverages.....	72	24	1,806	9,378	844	1,785	3,950	46,484	1,775	1,697	33,429
209	Miscellaneous foods and kindred products.....	28	8	683	3,559	413	858	1,891	10,400	599	622	8,224
22	Textile mill products.....	143	93	13,594	62,502	11,819	24,584	47,061	107,336	5,160	15,477	92,533
222	Weaving mills, synthetics.....	8	6	1,472	7,102	1,288	2,679	5,591	10,463	(D)	1,395	9,158
223	Weaving, finishing mills, wool	12	9	1,182	5,506	1,071	2,208	4,444	9,504	(Z)	1,780	11,247
224	Narrow fabric mills.....	21	11	1,196	5,610	1,009	2,014	3,484	10,202	(Z)	1,163	6,718
226	Textile finishing, except wool.....	20	14	1,891	10,440	1,609	3,648	8,025	16,196	1,548	2,186	13,432
228	Yarn and thread mills.....	15	13	3,740	15,018	3,395	7,053	12,377	29,179	775	3,448	19,891
229	Miscellaneous textile goods...	39	21	2,117	10,197	1,752	3,742	7,734	20,320	(Z)	1,348	10,221
23	Apparel and related products...	328	191	16,462	58,873	14,777	26,951	47,274	105,269	1,696	17,828	97,364
232	Men's and boys' furnishings...	34	23	1,856	6,348	1,694	3,140	5,023	9,680	(Z)	1,690	7,036
233	Women's and misses' outerwear...	121	95	7,088	21,498	6,009	10,601	18,339	40,022	611	6,300	29,675
234	Women's and children's underwear.....	27	22	2,977	11,167	2,623	4,952	8,737	27,098	544	3,747	26,681
235	Millinery, hats and caps.....	14	10	1,305	6,084	1,073	1,739	4,349	6,724	(Z)	2,488	16,430
238	Miscellaneous apparel.....	23	14	1,239	4,597	1,139	2,265	3,677	7,487	(Z)	964	5,074
239	Fabricated textiles, n.e.c.....	92	20	2,022	7,076	1,813	3,468	5,772	11,793	(Z)	1,994	9,974
24	Lumber and wood products.....	164	23	1,766	7,934	1,445	2,836	5,902	14,242	700	1,536	9,426
243	Millwork and related products...	65	7	791	4,208	619	1,216	3,002	6,240	(Z)	589	4,213
249	Miscellaneous wood products...	30	7	469	1,902	411	800	1,576	4,458	(Z)	359	2,339
25	Furniture and fixtures.....	129	37	3,855	19,713	2,972	5,982	13,595	33,444	686	3,402	24,966
251	Household furniture.....	78	24	2,112	10,306	1,775	3,607	7,824	17,691	(Z)	2,122	15,463
26	Paper and allied products.....	107	66	7,368	43,702	5,868	12,289	31,226	86,627	5,351	8,251	71,121
262	Paper mills, except building...	7	6	631	5,072	540	1,216	3,882	14,848	(D)	568	9,272
263	Paperboard mills.....	12	12	1,618	10,834	1,244	2,806	7,745	18,761	2,690	1,674	17,232
265	Paperboard containers and boxes.....	49	36	3,692	20,492	2,934	5,934	13,993	35,624	1,562	4,319	32,809
27	Printing and publishing.....	560	146	17,386	103,224	11,034	22,091	65,287	192,700	9,689	14,230	116,045
271	Newspapers.....	77	33	5,080	28,264	2,428	4,469	14,606	50,392	1,718	4,351	37,102
272	Periodicals.....	37	7	1,557	8,549	100	188	309	15,839	(Z)	969	8,366
273	Books.....	24	7	342	2,259	223	524	1,386	4,442	(Z)	364	2,784
275	Commercial printing.....	310	63	7,461	44,342	6,176	12,598	35,295	88,470	5,883	6,229	45,900
278	Bookbinding and related work...	19	7	592	3,119	399	781	2,351	5,884	(Z)	317	2,859
279	Printing trades services.....	69	21	1,221	10,061	976	2,076	7,727	13,419	1,008	1,118	10,480
28	Chemicals and allied products...	171	45	11,192	74,356	6,714	13,746	37,839	266,610	12,675	8,807	129,959
282	Fibers, plastics, rubbers.....	18	9	2,085	13,639	1,531	3,224	8,926	35,736	3,769	1,916	31,987
283	Drugs.....	17	5	2,493	17,623	1,742	3,554	11,175	47,557	(D)	2,148	35,524
284	Cleaning and toilet goods.....	57	15	3,357	18,715	1,680	3,297	6,542	121,102	1,894	1,672	30,905
30	Rubber and plastics products, n.e.c.....	141	75	17,034	95,872	13,419	26,474	68,384	171,444	8,714	15,617	141,757
307	Plastics products, n.e.c.....	95	46	4,653	24,015	3,761	7,441	17,215	38,218	2,971	3,920	30,813
31	Leather and leather products...	37	24	2,673	9,434	2,448	4,598	7,677	13,839	(Z)	3,456	19,256
32	Stone, clay and glass products...	201	63	6,777	40,668	5,277	10,946	28,747	81,461	5,871	6,002	54,050
323	Products of purchased glass...	11	6	640	3,301	554	1,100	2,495	5,779	(Z)	597	4,997
325	Structural clay products.....	10	6	300	1,572	268	557	1,381	2,238	(Z)	354	2,222
326	Pottery and related products...	10	4	657	3,614	549	1,159	2,823	6,342	(Z)	427	3,122
327	Concrete and plaster products...	125	29	2,112	13,679	1,576	3,308	8,660	32,243	3,143	1,771	18,127
329	Nonmetallic mineral products...	29	17	2,746	16,825	2,052	4,217	11,991	31,004	696	2,650	24,229
33	Primary metal industries.....	230	123	25,809	169,026	20,379	42,442	124,719	320,648	19,703	25,501	244,344
331	Steel rolling and finishing...	20	17	4,857	33,693	3,580	7,397	23,489	71,794	4,468	3,129	31,677
332	Iron and steel foundries.....	28	22	2,457	14,395	2,048	4,263	11,025	21,106	1,163	2,098	12,517
335	Nonferrous rolling and drawing.....	62	49	15,250	101,307	12,115	25,257	76,188	192,818	12,407	16,883	174,505
336	Nonferrous foundries.....	62	21	1,854	10,663	1,579	3,274	7,950	15,916	641	1,810	12,663
34	Fabricated metal products.....	884	319	40,983	228,635	31,583	64,571	154,671	397,054	28,361	43,496	324,734
342	Cutlery, hand tools, hardware...	100	52	14,547	80,886	11,011	21,768	54,418	139,480	16,467	16,466	118,400
344	Structural metal products.....	175	48	3,569	21,537	2,591	5,188	13,388	37,192	1,495	3,690	33,839
345	Screw machine products.....	204	67	6,301	35,554	4,957	11,041	24,526	66,247	3,306	6,633	50,609
346	Metal stampings.....	101	41	6,190	33,760	4,780	9,675	24,278	60,872	2,854	5,526	53,252
347	Metal stampings, n.e.c.....	141	31	2,345	12,334	1,987	4,071	9,087	20,295	806	1,905	13,362
348	Fabricated wire products, n.e.c.....	72	36	2,650	13,538	2,150	4,653	9,613	21,953	586	2,603	19,509
349	Fabricated metal products, n.e.c.....	55	29	4,198	22,818	3,209	6,376	15,252	39,996	2,405	5,695	40,867
35	Machinery, except electrical... Construction and like equipment.....	1,111	249	58,526	374,993	44,424	91,585	258,025	683,324	29,721	59,468	493,082
354	Metalworking machinery.....	15	5	294	1,733	219	444	1,089	1,886	(Z)	320	2,674
355	Special industry machinery...	498	103	15,588	108,447	11,646	24,929	73,678	176,007	8,158	14,956	120,458
356	General industrial machinery...	67	18	4,207	29,537	2,900	5,920	17,693	54,972	1,899	4,196	39,662
357	Office machines, n.e.c.....	109	43	20,892	131,518	15,922	32,484	91,109	248,450	12,844	21,345	179,258
358	Service industry machines...	17	11	9,746	55,473	7,666	14,893	40,606	112,125	3,364	12,183	98,650
359	Miscellaneous machinery.....	33	10	1,293	7,452	881	1,743	4,286	24,328	801	1,196	8,707
		358	52	4,795	30,009	3,825	8,450	21,895	46,072	1,967	4,313	33,450

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36	Electrical machinery.....	318	163	42,957	248,587	29,824	58,878	142,330	476,181	17,465	31,687	302,857
361	Electric distribution products	39	19	3,635	20,209	2,535	5,020	11,498	36,830	1,089	3,129	28,921
362	Electric industrial apparatus..	41	15	3,366	19,840	2,246	4,600	11,783	38,356	678	3,788	31,139
363	Household appliances.....	18	15	7,905	44,481	5,962	12,034	25,535	138,655	3,155	6,773	83,508
364	Lighting and wiring devices...	63	31	7,943	45,221	5,995	11,817	29,619	89,984	2,676	8,617	75,897
366	Communication equipment.....	41	27	6,680	46,052	3,572	7,500	18,678	70,336	3,766	2,777	24,596
367	Electronic components.....	75	39	10,891	58,024	7,738	14,305	33,378	79,526	4,611	4,566	30,996
37	Transportation equipment.....	155	66	84,784	616,216	55,046	120,720	347,665	896,131	39,001	70,612	586,552
371	Motor vehicles and equipment..	28	7	3,251	18,407	2,617	5,307	13,593	28,163	1,243	2,475	23,106
38	Instruments and related products	117	63	16,913	98,715	11,288	22,541	56,612	184,582	8,821	18,195	132,626
381	Scientific instruments.....	20	6	466	2,968	308	630	1,657	5,173	(2)	1,291	8,514
382	Mechanical measuring devices..	35	20	6,050	37,668	3,823	7,668	21,106	63,541	3,125	6,164	54,643
384	Medical instruments and supplies.....	28	21	3,569	16,278	2,672	5,339	10,837	34,430	3,039	3,300	22,776
39	Miscellaneous manufacturing, including ordnance ³	279	116	24,204	136,455	19,338	38,498	97,267	268,987	10,596	23,012	201,230
391	Jewelry and silverware.....	27	13	3,574	21,414	3,208	6,652	19,027	36,649	535	3,989	34,909
395	Pens, pencils and office supplies.....	26	14	1,355	7,625	917	1,816	4,076	27,222	529	1,628	12,171
396	Costume jewelry and notions...	56	35	6,162	32,060	5,010	9,908	22,969	58,897	2,181	5,169	36,105
399	Miscellaneous manufactures ³ ...	113	33	10,281	61,550	7,980	15,835	41,984	123,333	5,922	8,941	97,423
190	Administrative and auxiliary ⁴ ...	-	-	14,468	117,974	-	-	-	-	-	13,464	-

-Represents zero. (D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ¹Revised.

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BRIDGEPORT SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	825	300	67,583	420,733	47,141	97,422	260,611	770,916	31,206	64,749	570,915
20	Food and kindred products.....	44	18	1,484	8,736	808	1,670	4,250	19,022	978	2,002	18,101
202	Dairies.....	12	5	513	3,265	207	451	1,207	7,230	(2)	670	9,159
205	Bakery products.....	13	8	672	3,687	491	995	2,512	6,465	(2)	970	5,450
22	Textile mill products.....	11	7	533	1,878	468	910	1,560	3,263	(2)	748	3,570
23	Apparel and related products....	52	37	3,789	13,669	3,423	6,258	11,582	32,700	512	3,826	24,743
233	Women's and misses' outerwear..	19	16	1,096	3,512	1,013	1,613	3,076	5,022	(2)	1,122	3,914
234	Women's and children's underwear.....	15	11	1,674	6,401	1,443	2,684	5,137	21,430	(2)	1,984	17,131
238	Miscellaneous apparel.....	7	7	675	2,581	638	1,291	2,265	4,155	(2)	284	1,772
26	Paper and allied products.....	9	7	522	2,993	394	835	1,907	5,211	(2)	542	4,267
27	Printing and publishing.....	75	15	1,492	9,212	984	2,004	5,945	15,259	854	1,248	11,315
275	Commercial printing.....	49	6	588	3,615	467	991	2,518	5,784	(2)	463	4,004
28	Chemicals and allied products...	21	7	1,103	5,315	755	1,416	3,037	19,110	662	752	11,142
30	Rubber and plastics products, n.e.c.....	28	14	2,739	17,177	1,927	4,184	10,865	31,860	3,364	2,720	25,049
306	Rubber products, n.e.c.....	10	7	1,841	12,323	1,216	2,645	7,296	23,537	2,512	1,937	18,722
307	Plastics products, n.e.c.....	18	7	898	4,854	711	1,539	3,569	8,323	852	783	6,327
32	Stone, clay and glass products..	28	6	1,740	11,487	1,346	2,800	8,852	21,683	627	1,587	15,372
33	Primary metal industries.....	42	23	5,068	35,298	3,934	8,492	26,113	74,161	3,396	5,137	54,702
335	Nonferrous rolling and drawing.....	11	8	3,018	21,094	2,360	4,936	15,517	44,173	1,962	3,098	42,698
336	Nonferrous foundries.....	12	5	433	2,338	387	847	2,000	3,610	(2)	722	4,320
339	Primary metal industries, n.e.c.....	10	3	370	2,231	275	564	1,571	3,822	(2)	438	4,057

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ²	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BRIDGEPORT SMSA—Continued												
34	Fabricated metal products.....	136	52	7,087	40,673	5,414	11,216	27,453	62,748	5,469	6,734	53,806
342	Cutlery, hand tools, hardware.....	23	14	3,086	17,389	2,380	4,913	11,959	24,603	4,014	2,869	22,570
344	Structural metal products.....	31	5	572	3,452	373	751	1,759	5,690	(Z)	545	4,884
345	Screw machine products.....	22	7	535	3,182	428	1,021	5,852	(Z)	(Z)	412	3,136
346	Metal stampings.....	14	7	439	2,790	330	740	1,775	4,102	(Z)	322	2,992
347	Metal services, n.e.c.....	28	8	684	3,733	588	1,214	2,786	5,791	(Z)	578	3,789
349	Fabricated metal products, n.e.c.....	11	8	1,445	8,462	1,046	2,058	5,846	14,187	654	1,577	13,643
35	Machinery, except electrical....	229	40	6,407	43,892	5,027	10,682	32,158	73,838	2,750	7,205	63,340
354	Metalworking machinery.....	121	23	4,010	29,286	3,261	6,956	22,286	47,103	1,877	3,595	32,980
356	General industrial machinery....	24	6	565	3,682	407	882	2,264	6,539	(Z)	506	4,325
359	Miscellaneous machinery.....	60	4	412	2,210	339	697	1,769	3,594	(Z)	1,075	7,859
36	Electrical machinery.....	42	26	10,079	60,461	7,203	14,729	37,913	138,830	3,431	8,812	112,946
363	Household appliances.....	5	4	3,516	21,049	2,484	5,135	12,964	68,742	951	3,218	46,215
364	Lighting and wiring devices....	14	11	3,478	20,786	2,571	5,017	13,425	37,832	1,071	3,119	31,057
37	Transportation equipment.....	26	11	17,758	121,728	10,785	22,705	64,077	187,868	6,205	14,925	106,685
38	Instruments and related products	16	10	2,103	11,991	1,432	2,964	8,650	23,975	624	3,241	27,268
382	Mechanical measuring devices..	7	6	1,935	11,362	1,289	2,683	8,168	22,907	593	1,922	18,718
39	Miscellaneous manufacturing, including ordnance ³	34	17	3,539	20,463	2,766	5,571	14,328	57,721	1,731	2,756	34,698
395	Pens, pencils and office supplies.....	6	6	422	2,167	295	591	1,230	12,841	(Z)	207	946
--	Administrative and auxiliary ⁴ ...	-	-	1,582	13,297	-	-	-	-	-	1,847	-
HARTFORD SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	926	309	89,478	584,734	57,543	120,645	329,283	972,092	40,716	88,533	722,875
20	Food and kindred products.....	90	30	3,177	17,639	1,668	3,466	8,562	71,252	2,119	3,352	46,376
201	Meat products.....	11	5	343	1,476	262	602	1,081	3,777	(Z)	304	2,280
202	Dairies.....	31	10	1,047	6,267	373	693	1,859	18,495	1,010	1,147	10,690
205	Bakery products.....	20	6	929	5,555	481	1,028	2,890	11,385	(Z)	1,151	9,519
22	Textile mill products.....	17	12	2,461	11,773	2,041	4,041	8,550	16,378	(Z)	2,592	14,587
23	Apparel and related products....	21	9	1,295	4,761	1,159	2,193	3,970	7,632	(Z)	1,478	9,657
233	Women's and misses' outerwear..	6	6	973	3,360	897	1,690	2,974	5,268	(Z)	1,075	8,056
26	Paper and allied products.....	23	11	1,197	7,588	960	2,067	5,605	16,920	853	1,381	14,091
264	Paper and paperboard products..	12	3	466	2,089	355	693	1,606	4,110	(Z)	554	4,057
27	Printing and publishing.....	121	33	3,516	19,252	2,088	4,181	11,199	48,757	1,370	2,942	24,581
275	Commercial printing.....	68	18	1,333	7,832	985	2,093	5,351	29,733	626	1,078	8,668
28	Chemicals and allied products...	20	7	1,006	6,266	656	1,347	3,358	14,248	653	1,066	11,033
32	Stone, clay and glass products..	35	12	853	5,358	701	1,523	4,050	13,026	896	799	9,447
327	Concrete and plaster products...	22	8	520	3,644	411	899	2,678	10,824	797	491	6,550
34	Fabricated metal products.....	134	40	4,143	25,445	3,113	6,615	17,341	46,522	(D)	(D)	(D)
342	Cutlery, hand tools, hardware.....	16	4	483	3,022	350	740	2,027	5,342	(Z)	(D)	(D)
343	Plumbing and heating, except electric.....	7	5	358	1,980	269	565	1,397	3,768	(Z)	472	4,056
344	Structural metal products.....	42	13	871	5,631	699	1,419	3,976	9,528	(Z)	614	5,579
345	Screw machine products.....	26	6	1,305	8,373	906	1,821	5,151	15,992	603	1,934	19,338
348	Fabricated wire products, n.e.c.....	9	5	543	2,888	446	1,063	2,144	4,086	(Z)	376	3,096
35	Machinery, except electrical....	226	68	16,723	104,112	13,014	26,693	72,982	198,808	7,838	19,283	147,992
354	Metalworking machinery.....	99	29	5,355	38,111	3,775	8,219	23,738	59,985	3,861	5,131	38,704
356	General industrial machinery....	17	9	1,499	9,590	1,115	2,339	6,191	19,755	818	2,951	22,745
358	Service industry machines.....	8	5	836	4,674	619	1,227	3,020	20,378	708	1,089	7,905
359	Miscellaneous machinery.....	84	18	1,266	9,439	1,005	2,363	6,882	13,673	564	1,024	8,680
36	Electrical machinery.....	49	22	4,551	23,374	3,606	7,332	16,251	41,387	1,747	3,702	32,148
363	Household appliances.....	5	4	913	4,004	817	1,817	3,255	6,597	(Z)	485	3,397
367	Electronic components.....	8	5	688	3,542	491	825	2,094	4,099	(Z)	540	3,769
39	Miscellaneous manufacturing, including ordnance ³	38	9	1,711	9,969	1,420	2,702	7,322	38,744	570	1,775	34,660
--	Administrative and auxiliary ⁴ ...	-	-	5,663	43,559	-	-	-	-	-	4,244	-
NEW HAVEN SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	726	280	42,990	252,687	30,751	62,043	156,049	414,623	27,613	42,527	331,572
20	Food and kindred products.....	72	19	2,232	13,878	1,227	2,401	6,471	28,765	1,298	2,781	26,941
201	Meat products.....	9	4	672	4,156	488	927	2,905	5,924	(Z)	775	5,002
202	Dairies.....	13	4	588	4,802	211	403	1,117	9,519	589	1,049	12,446
205	Bakery products.....	23	5	387	2,005	245	486	1,207	3,810	(Z)	387	2,954
208	Beverages.....	12	4	423	2,166	162	342	711	7,825	(Z)	443	5,210
22	Textile mill products.....	7	5	526	2,882	449	1,021	2,098	5,815	524	507	3,946
23	Apparel and related products....	97	60	4,198	15,529	3,783	6,884	11,791	27,900	(Z)	4,337	22,732
232	Men's and boys' furnishings....	21	11	912	3,443	807	1,551	2,468	5,187	(Z)	989	4,365
233	Women's and misses' outerwear..	42	36	1,952	7,069	1,808	3,100	5,638	15,341	(Z)	1,875	8,756
239	Fabricated textiles, n.e.c.....	20	5	442	1,400	391	732	1,144	2,244	(Z)	281	1,887

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW HAVEN SMSA—Continued												
25	Furniture and fixtures.....	20	4	347	1,746	305	579	1,332	2,669	(Z)	543	2,796
26	Paper and allied products.....	15	11	1,608	9,017	1,245	2,531	6,368	17,711	657	1,897	15,712
27	Printing and publishing.....	85	29	2,792	17,180	2,083	4,119	12,527	26,508	1,537	2,746	20,888
275	Commercial printing.....	46	16	1,374	8,858	1,142	2,406	7,214	12,197	1,169	1,314	9,248
279	Printing trades services.....	11	5	294	2,205	225	477	1,738	3,072	(Z)	363	3,400
28	Chemicals and allied products...	36	2	393	3,040	164	345	795	5,462	1,435	225	3,405
32	Stone, clay and glass products..	26	15	927	5,747	680	1,528	3,538	11,127	1,007	829	7,125
327	Concrete and plaster products..	13	8	596	3,968	422	986	2,319	7,330	923	476	3,975
33	Primary metal industries.....	41	20	3,736	23,249	2,761	5,607	14,996	33,733	3,791	4,051	33,993
331	Steel rolling and finishing...	5	4	1,197	8,355	869	1,686	5,475	13,179	(Z)	1,176	13,266
332	Iron and steel foundries.....	7	4	270	1,274	236	426	992	1,534	(Z)	298	1,640
335	Nonferrous rolling and drawing.....	10	8	1,578	9,620	1,087	2,305	5,803	13,263	3,094	2,086	15,152
336	Nonferrous foundries.....	11	4	647	3,731	536	1,117	2,542	5,405	(Z)	469	3,677
34	Fabricated metal products.....	80	33	3,820	21,504	2,926	5,977	13,860	39,659	5,498	4,312	33,898
342	Cutlery, hand tools, hardware...	13	5	1,717	9,985	1,327	2,750	6,360	17,209	(D)	1,897	14,135
344	Structural metal products.....	27	8	515	2,836	380	776	1,839	5,250	(Z)	980	10,645
345	Screw machine products.....	11	5	268	1,715	198	451	1,024	4,631	(Z)	160	1,316
348	Fabricated wire products, n.e.c.....	8	4	663	3,755	506	990	2,537	5,572	980	236	2,197
35	Machinery, except electrical...	109	27	3,084	19,089	2,086	4,460	11,403	29,174	1,316	2,095	16,230
354	Metalworking machinery.....	34	12	846	5,140	633	1,314	3,487	8,531	(Z)	845	7,112
36	Electrical machinery.....	29	13	2,346	13,840	1,580	3,167	7,829	26,193	712	1,479	8,718
38	Instruments and related products	10	5	1,143	6,582	629	1,225	2,809	10,168	(Z)	1,923	13,504
39	Miscellaneous manufacturing, including ordnance ³	43	20	5,897	34,334	4,396	8,758	22,580	50,905	4,601	5,437	32,919
398	} Miscellaneous manufactures ³ ...	26	13	4,481	27,034	4,299	7,482	20,470	37,423	3,305	4,124	22,913
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	784	7,373	-	-	-	-	-	312	-
WATERBURY SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	463	167	37,745	222,904	28,576	57,577	150,312	423,049	15,519	37,411	301,555
20	Food and kindred products.....	20	6	896	5,600	495	1,004	2,674	14,837	(Z)	951	15,328
205	Bakery products.....	8	1	282	1,847	151	328	805	2,926	(Z)	302	2,833
23	Apparel and related products...	12	8	874	2,821	828	1,629	2,446	2,795	(Z)	971	3,048
233	Women's and misses' outerwear.	6	5	345	1,124	327	654	997	1,315	(Z)	289	1,036
27	Printing and publishing.....	31	7	1,269	6,707	853	1,680	4,383	10,160	(Z)	827	5,811
32	Stone, clay and glass products..	12	4	384	1,849	296	592	1,169	3,250	(Z)	406	2,964
33	Primary metal industries.....	21	16	5,366	36,834	4,286	8,909	28,293	68,939	3,164	6,061	59,261
335	Nonferrous rolling and drawing.....	12	11	4,856	33,739	3,869	8,084	26,041	63,862	2,891	5,556	55,519
34	Fabricated metal products.....	165	57	7,561	42,483	6,033	12,425	30,093	74,213	3,587	7,442	51,308
342	Cutlery, hand tools, hardware...	7	3	379	2,124	317	638	1,606	3,728	(Z)	326	3,266
344	Structural metal products.....	14	5	298	1,628	228	430	1,125	2,964	(Z)	158	1,184
345	Screw machine products.....	63	21	1,604	8,683	1,322	3,013	6,556	15,362	866	1,607	11,444
346	Metal stampings.....	37	16	4,243	24,792	3,284	6,511	17,082	43,749	2,146	4,366	30,050
347	Metal services, n.e.c.....	24	9	670	3,348	584	1,176	2,352	5,085	(Z)	547	3,928
35	Machinery, except electrical...	102	19	3,866	24,065	2,754	5,594	15,083	45,026	1,605	3,433	28,256
354	Metalworking machinery.....	60	8	1,593	10,784	1,200	2,466	7,152	19,254	625	1,502	11,601
359	Miscellaneous machinery.....	26	6	927	5,331	700	1,432	3,601	8,749	(Z)	681	5,174
36	Electrical machinery.....	12	7	1,132	5,967	778	1,683	3,432	9,825	(Z)	(D)	(D)
38	Instruments and related products	14	13	5,334	29,114	3,791	7,387	17,480	59,188	2,314	4,992	33,591
387	Watches, clocks, and watchcases.....	6	5	3,218	17,334	2,296	4,413	10,097	36,328	(Z)	3,084	17,993
39	Miscellaneous manufacturing, including ordnance ³	32	14	1,728	10,136	1,419	2,864	7,126	18,774	638	1,799	14,122
396	Costume jewelry and notions...	23	13	1,640	9,704	1,348	2,717	6,825	18,192	602	1,768	13,438
--	Administrative and auxiliary ⁴ ...	-	-	1,148	9,296	-	-	-	-	-	770	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.



PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume 1, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

U.S. DEPARTMENT OF COMMERCE
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1963 CENSUS OF MANUFACTURES



MC63(P)-S8

Area series

DELAWARE

preliminary report

Value added by manufacturing in 1963 in the State of Delaware amounted to \$666 million, an increase of 23 percent from 1962 and 59 percent from 1958. Of this total, \$182 million was contributed by the Chemicals and Allied Products Industry the leading industry group in the State.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employ-ees, number	Value added by manufacture
1963.....	548	230	59,803	437,800	31,161	62,998	163,386	666,245	65,685	103	159
1962.....	(NA)	(NA)	r 57,262	r 376,504	29,314	58,203	145,479	542,442	57,788	99	129
1961.....	(NA)	(NA)	r 55,645	r 358,347	28,214	55,481	132,409	464,455	58,244	96	111
1960.....	(NA)	(NA)	r 58,703	r 371,010	31,645	61,022	146,184	516,461	31,826	102	123
1959.....	(NA)	(NA)	r 58,004	r 359,448	31,015	61,069	136,856	517,214	25,079	100	123
1958.....	547	222	r 57,830	r 347,603	29,966	57,283	125,244	419,831	27,926	100	100

(NA) Not available. ^rRevised

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

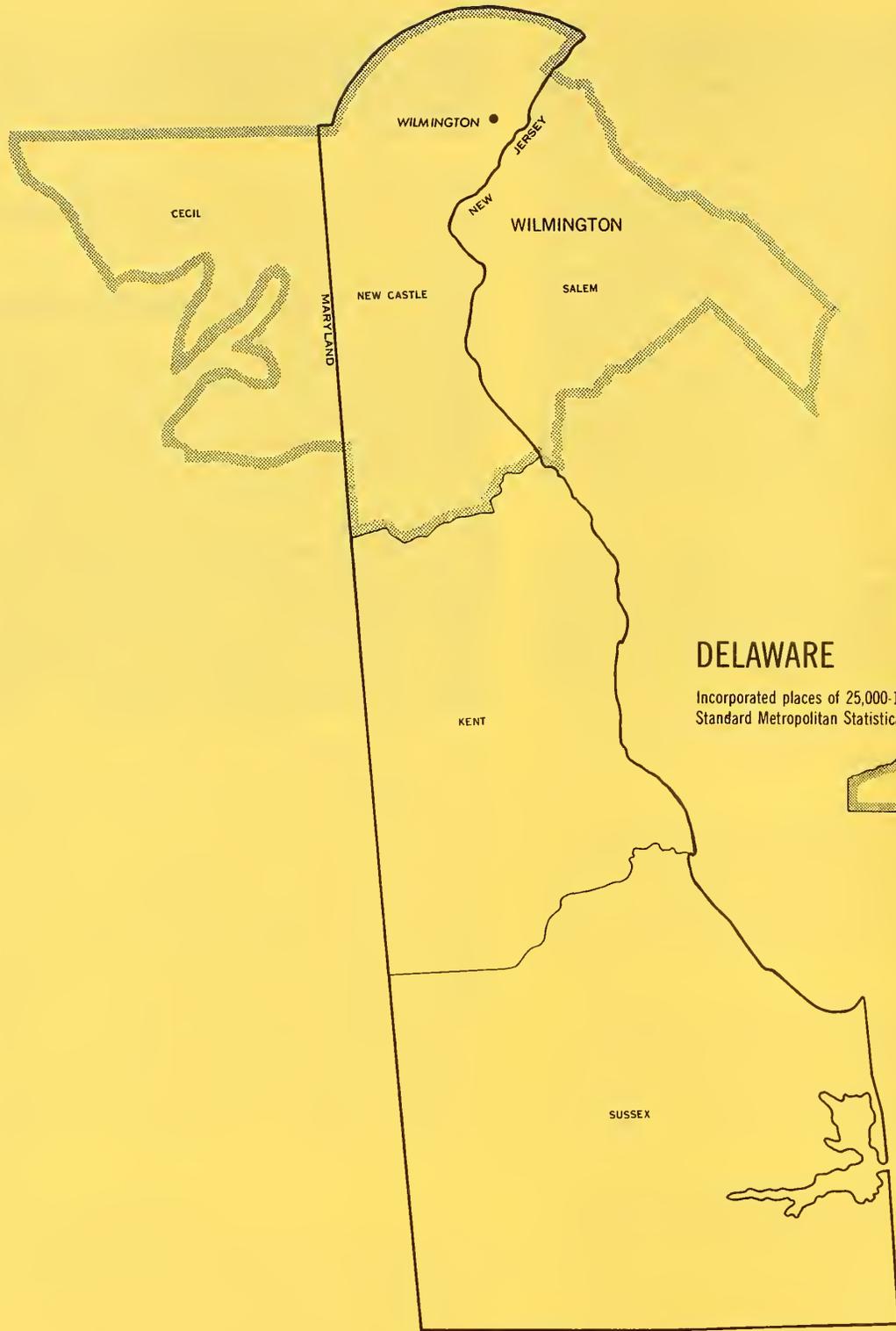
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



DELAWARE

Incorporated places of 25,000-100,000
Standard Metropolitan Statistical Areas

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DELAWARE, TOTAL.....	548	230	59,803	437,800	31,161	62,998	163,386	666,245	65,685	57,830	419,831
STANDARD METROPOLITAN STATISTICAL AREAS											
Wilmington ⁴	460	192	60,722	476,235	31,098	62,554	182,492	708,126	52,490	58,709	470,820
Portion in Delaware.....	338	144	46,444	376,095	21,401	44,126	126,450	487,920	29,741	46,025	312,301
Portion in New Jersey.....	59	23	10,895	82,860	7,245	13,435	45,775	190,013	(D)	10,481	142,933
Portion in Maryland.....	63	25	3,383	17,280	2,452	4,993	10,267	30,193	(D)	2,203	15,586
COUNTIES ¹											
Kent.....	69	29	4,665	18,433	3,235	5,965	10,160	50,167	(D)	4,366	35,868
New Castle.....	338	144	46,444	376,095	21,401	44,126	126,450	487,920	29,741	46,025	312,301
Sussex.....	141	57	8,694	43,272	6,525	12,907	26,776	128,158	(D)	7,439	71,662

(D) Withheld to avoid disclosing figures for individual companies. ^RRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Wilmington Standard Metropolitan Statistical Area consists of New Castle County, Del., Salem County, N.J., and Cecil County, Md.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	548	230	59,803	437,800	31,161	62,998	163,386	666,245	65,685	57,830	419,831
20	Food and kindred products.....	125	63	6,346	24,659	4,843	9,404	15,488	56,143	2,923	6,273	51,723
201	Meat products.....	20	12	1,704	5,658	1,504	3,072	4,633	10,539	579	1,774	8,638
202	Dairies.....	21	6	551	2,958	245	522	1,191	8,669	(Z)	786	9,764
203	Canned and frozen foods.....	30	25	2,388	6,684	2,219	3,877	5,492	16,049	858	2,231	9,567
204	Grain mill products.....	17	8	508	2,788	243	573	1,170	9,098	(Z)	626	14,092
205	Bakery products.....	14	5	654	3,998	335	711	1,820	6,308	(Z)	289	3,673
208	Beverages.....	10	4	300	1,588	82	170	352	3,091	(Z)	254	2,350
22	Textile mill products.....	15	9	2,197	10,820	1,606	3,431	6,625	16,579	500	2,317	11,136
23	Apparel and related products....	28	18	3,086	12,484	2,184	3,772	6,580	29,136	(Z)	3,308	28,390
232	Men's and boys' furnishings....	5	5	476	1,225	455	811	1,127	1,394	(Z)	505	1,408
24	Lumber and wood products.....	50	12	884	2,663	712	1,294	1,968	5,424	(Z)	940	3,348
27	Printing and publishing.....	60	13	1,349	8,609	870	1,658	5,405	14,132	911	1,276	10,688
271	Newspapers.....	15	3	658	4,530	320	569	2,375	8,023	(Z)	630	5,962
275	Commercial printing.....	37	8	604	3,625	485	964	2,709	5,500	(Z)	597	4,398
28	Chemicals and allied products...	39	21	7,587	55,239	4,802	9,832	30,429	181,965	41,037	5,653	92,906
30	Rubber and plastics products, n.e.c.....	12	7	2,918	17,061	2,246	4,481	11,851	28,324	3,047	2,016	15,233
31	Leather and leather products....	10	10	1,718	7,306	1,384	2,783	5,509	17,099	(Z)	1,738	12,014
32	Stone, clay and glass products..	40	13	853	4,189	665	1,407	3,125	10,857	1,021	775	7,049
327	Concrete and plaster products.	34	11	758	3,763	592	1,262	2,800	10,346	973	541	4,895
33	Primary metal industries.....	10	7	2,365	14,963	1,938	3,593	10,835	19,887	1,371	2,952	21,093
34	Fabricated metal products.....	38	17	1,916	11,290	1,417	2,842	7,340	24,733	633	2,341	21,659
344	Structural metal products.....	23	9	750	4,335	557	1,135	2,703	11,797	(Z)	686	6,542
35	Machinery, except electrical....	47	10	1,317	10,919	842	1,720	5,263	11,661	1,124	2,143	12,201
--	Administrative and auxiliary ³ ...	-	-	17,547	185,448	-	-	-	-	-	17,339	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^RRevised.¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new* (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
WILMINGTON, DEL.-N.J.-MD. SMSA (Consists of New Castle County, Del., Salem County, N.J. and Cecil County, Md.)												
	All industries, total ²	460	192	60,722	476,235	31,098	62,554	182,492	708,126	52,490	58,709	470,820
20	Food and kindred products.....	74	32	2,619	12,652	1,537	2,817	5,912	31,251	1,210	2,648	25,966
201	Meat products.....	14	5	328	973	275	407	759	1,486	(Z)	465	3,119
202	Dairies.....	19	9	604	3,358	250	527	1,188	9,785	(Z)	857	10,527
205	Bakery products.....	14	5	651	3,993	333	707	1,817	6,311	(Z)	291	3,643
208	Beverages.....	8	4	271	1,463	73	151	317	2,788	(Z)	230	2,106
22	Textile mill products.....	11	10	2,245	10,781	1,662	3,481	6,678	18,452	533	(D)	(D)
225	Knitting mills.....	5	5	399	1,393	358	664	1,058	2,380	(Z)	243	1,506
23	Apparel and related products...	22	12	1,016	3,336	931	1,598	2,743	4,767	(Z)	(D)	(D)
233	Women's and misses' outerwear.	11	7	388	944	356	524	787	1,419	(Z)	558	1,531
24	Lumber and wood products.....	31	4	292	1,225	244	438	803	2,488	(Z)	348	1,651
27	Printing and publishing.....	52	14	1,350	8,605	892	1,714	5,464	14,195	911	1,248	10,567
30	Rubber and plastics products, n.e.c.....	13	8	3,051	17,553	2,364	4,736	12,220	29,067	3,142	2,373	16,997
31	Leather and leather products....	10	9	1,244	5,981	1,008	1,999	4,555	9,232	(Z)	1,619	11,410
32	Stone, clay and glass products..	32	13	2,486	12,362	2,126	4,063	10,123	25,138	1,915	2,590	23,134
33	Primary metal industries.....	11	8	2,688	16,642	2,223	4,197	12,269	22,638	1,575	2,963	21,132
34	Fabricated metal products.....	39	17	1,681	10,012	1,275	2,583	6,985	21,456	649	2,240	20,711
344	Structural metal products.....	22	8	487	2,911	394	838	2,249	7,920	(Z)	662	6,283
35	Machinery, except electrical....	46	8	1,189	10,287	758	1,546	4,866	10,973	1,078	1,914	10,689
--	Administrative and auxiliary ³ ...	-	-	17,437	185,043	-	-	-	-	-	17,328	-

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

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES

MC63(P)-S9



preliminary report

Area series

DISTRICT OF COLUMBIA

Value added by manufacturing in 1963 in the District of Columbia amounted to \$261 million, an increase of 6 percent from 1962 and 32 percent from 1958. Of this total, \$163 million was contributed by the printing and publishing industries and \$55 million by the food and kindred products industries, the two leading industry groups in the District of Columbia.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE DISTRICT: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	557	154	22,262	148,025	11,403	21,643	65,028	260,511	13,491	104	132
1962 ³	(NA)	(NA)	22,687	141,441	11,255	21,002	59,415	245,124	(15,133)	106	124
1961 ³	(NA)	(NA)	23,139	138,693	11,667	21,958	59,588	243,849	(15,815)	108	123
1960 ³	(NA)	(NA)	23,115	134,447	11,661	21,874	58,507	239,226	(22,215)	108	121
1959 ³	(NA)	(NA)	22,457	126,334	11,772	22,562	56,553	229,098	(21,133)	105	116
1958.....	507	142	21,334	113,949	11,176	21,270	52,800	198,089	14,732	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parentheses may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

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Washington, D.C.-Md.-Va., SMSA

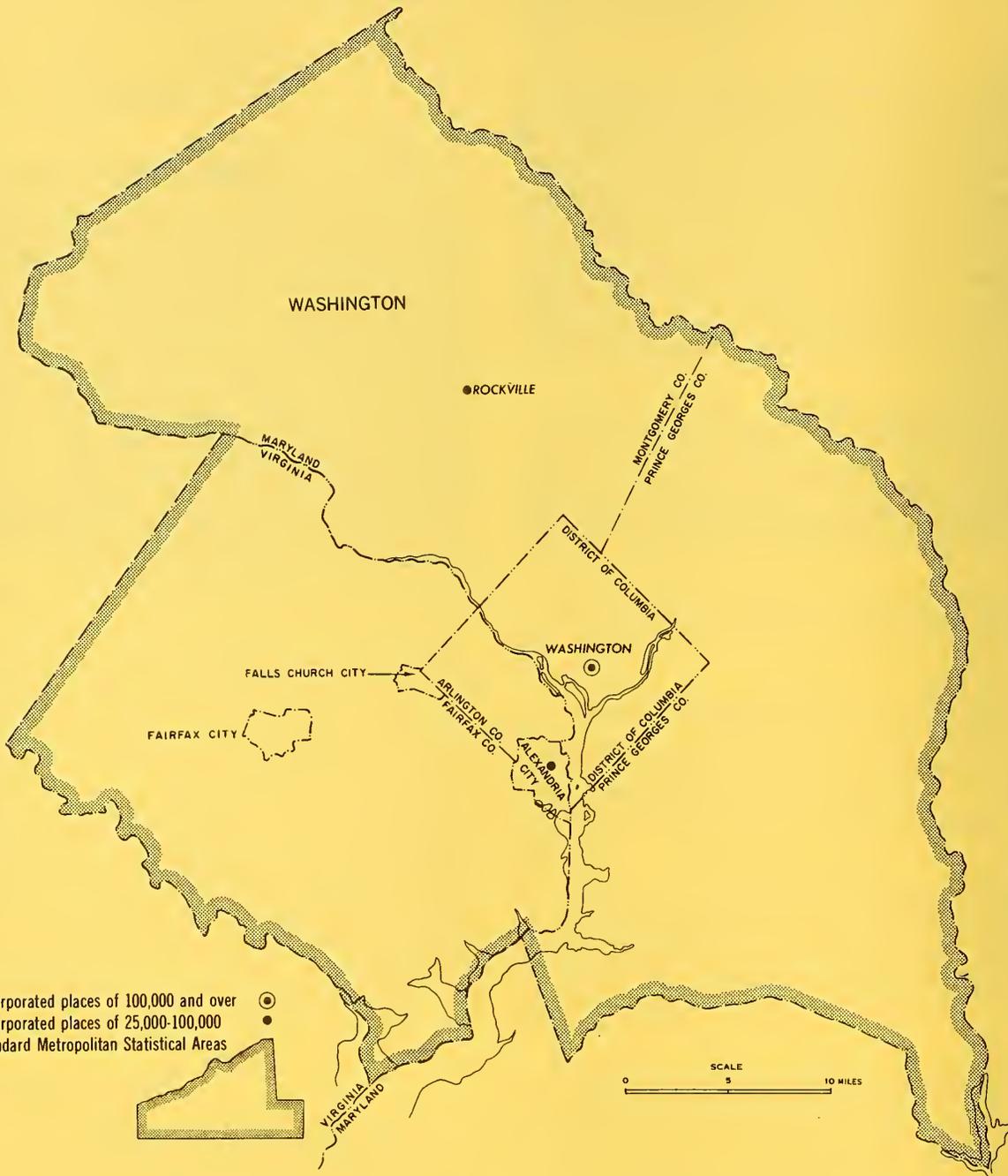


Table 2.--GENERAL STATISTICS FOR THE DISTRICT AND STANDARD METROPOLITAN STATISTICAL AREA: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties	1963							1958			
	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ² (\$1,000)	All employees, number ¹	Value added by manufacture (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DISTRICT OF COLUMBIA, TOTAL.....	557	154	22,262	148,025	11,403	21,643	65,028	260,511	13,491	21,334	198,089
STANDARD METROPOLITAN STATISTICAL AREAS											
Washington, D.C.-Md.-Va. ³	1,200	354	49,899	322,796	27,874	55,807	154,097	524,768	31,577	35,020	312,152
Portion in Maryland.....	417	125	15,908	106,265	8,917	19,005	48,878	154,643	9,250	9,190	80,514
Portion in Washington, D.C.....	557	154	22,262	148,025	11,403	21,643	65,028	260,511	13,491	21,334	198,089
Portion in Virginia.....	226	75	11,729	68,506	7,554	15,159	40,191	109,614	8,836	4,496	33,549
COUNTIES (Not applicable to the District of Columbia)											

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)²Includes expenditures for plants under construction but not in operation.³The Washington, D.C.-Md.-Va. Standard Metropolitan Statistical Area consists of the District of Columbia, Alexandria, Fairfax, and Falls Church cities and Arlington and Fairfax Counties, Va., Montgomery and Prince Georges Counties, Md.

Table 3.--GENERAL STATISTICS FOR THE DISTRICT, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ² (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	557	154	22,262	148,025	11,403	21,643	65,028	260,511	13,491	21,334	198,089
20	Food and kindred products.....	56	30	4,544	28,912	1,931	4,053	10,352	55,439	1,882	5,648	54,154
202	Dairies.....	6	6	1,802	12,541	458	1,007	2,855	22,871	1,279	2,421	23,023
205	Bakery products.....	19	12	1,752	10,835	971	1,913	5,308	20,557	(Z)	1,663	16,932
209	Miscellaneous foods and kindred products.....	16	6	471	2,560	288	658	1,254	8,014	(Z)	572	5,769
27	Printing and publishing.....	316	77	13,145	89,591	6,660	11,982	40,489	162,979	8,783	12,136	117,333
271	Newspapers.....	25	8	4,672	29,705	2,774	4,250	16,407	55,167	1,099	3,846	35,491
272	Periodicals.....	76	18	3,264	25,615	131	203	658	57,238	6,128	3,319	39,298
273	Books.....	24	6	1,073	6,496	736	1,451	4,525	10,410	(Z)	663	5,799
275	Commercial printing.....	137	26	2,905	19,699	2,305	4,653	14,592	28,494	1,087	3,332	28,180
279	Printing trades services.....	25	13	625	4,205	502	1,012	3,239	6,122	(Z)	407	3,878
32	Stone, clay and glass products..	17	13	983	5,682	797	1,673	3,961	12,384	1,461	676	7,037
327	Concrete and plaster products.	9	8	657	4,151	501	1,093	2,706	9,122	1,410	523	5,954
34	Fabricated metal products.....	24	6	482	2,894	403	711	2,270	3,833	(Z)	549	4,642
344	Structural metal products.....	15	6	375	2,397	312	532	1,863	3,003	(Z)	472	3,947
39	Miscellaneous manufacturing.....	23	4	253	1,468	182	356	1,017	2,081	(Z)	186	1,307
--	Administrative and auxiliary ³ ...	-	-	841	8,367	-	-	-	-	-	516	-

- Represents zero. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	number	(\$1,000)
		WASHINGTON, D.C.-MD.-VA. SMSA (Consists of the District of Columbia, Alexandria, Fairfax, and Falls Church cities and Arlington and Fairfax Counties, Va.; Montgomery and Prince Georges Counties, Md.)										
	All industries, total ²	1,200	354	49,899	322,796	27,874	55,807	154,097	524,768	31,577	35,020	312,152
20	Food and kindred products.....	107	59	7,780	47,497	3,453	7,463	17,716	100,881	4,677	7,777	77,041
202	Dairies.....	13	13	2,533	16,851	708	1,493	4,204	33,303	1,684	3,086	29,691
205	Bakery products.....	29	15	2,133	13,270	1,196	2,391	6,622	26,541	(Z)	2,040	21,419
208	Beverages.....	19	12	1,349	8,174	424	1,032	1,670	19,486	1,884	1,098	12,616
209	Miscellaneous foods and kindred products.....	24	11	980	4,971	593	1,319	2,410	14,583	587	783	7,480
24	Lumber and wood products.....	58	9	654	2,933	522	990	2,138	4,082	(Z)	518	1,810
25	Furniture and fixtures.....	45	9	532	2,532	383	761	1,610	4,276	(Z)	534	2,959
27	Printing and publishing.....	460	102	15,744	105,027	8,248	15,064	49,491	191,548	10,822	13,478	128,000
271	Newspapers.....	49	13	5,151	32,280	3,064	4,811	17,958	62,065	2,355	4,105	36,978
275	Commercial printing.....	207	35	3,959	26,048	3,125	6,234	19,351	38,981	1,450	4,190	35,298
28	Chemicals and allied products...	44	11	1,225	6,295	802	1,637	3,432	15,771	520	995	9,126
32	Stone, clay and glass products..	74	41	2,720	15,279	2,133	4,742	10,966	34,097	6,029	1,910	18,001
327	Concrete and plaster products.	53	32	2,168	12,492	1,648	3,757	8,734	28,737	5,844	1,490	14,588
34	Fabricated metal products.....	92	33	2,829	16,201	1,909	3,860	9,656	23,300	1,464	2,140	18,481
344	Structural metal products.....	67	31	2,498	14,359	1,635	3,301	8,357	20,203	677	2,001	17,179
35	Machinery, except electrical....	61	13	1,349	6,717	798	1,629	3,518	11,414	585	863	6,345
38	Instruments and related products	44	15	1,171	6,722	797	1,935	4,140	10,135	(Z)	634	5,653
39	Miscellaneous manufacturing, including ordnance ³	54	9	1,451	9,955	698	1,407	4,305	13,072	909	487	2,946
--	Administrative and auxiliary ⁴ ...	-	-	2,954	32,130	-	-	-	-	-	974	-

- Represents zero. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S10

Area series

FLORIDA

preliminary report

Value added by manufacturing in 1963 in the State of Florida amounted to \$2,326 million, an increase of 11 percent from 1962 and 65 percent from 1958. Of this total, \$499 million was contributed by the food and kindred products industries and \$315 million by the chemicals and allied products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	7,331	1,821	217,629	1,098,797	148,413	305,067	628,315	2,326,335	185,666	127	165
1962.....	(NA)	(NA)	199,375	969,268	135,760	280,313	547,801	2,092,405	191,647	116	148
1961 ³	(NA)	(NA)	192,537	895,991	133,374	272,342	510,435	1,884,165	225,353	112	133
1960 ³	(NA)	(NA)	191,281	844,924	134,817	272,765	499,028	1,794,585	153,291	112	127
1959 ³	(NA)	(NA)	185,618	781,494	135,342	278,429	486,245	1,677,259	156,292	108	119
1958.....	6,304	1,526	171,257	680,521	125,089	247,753	434,529	1,410,843	152,303	100	100

(NA) Not available. ¹ Revised.

¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

² Includes expenditures for both plants in operation and for plants under construction but not in operation.

³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

July 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS,



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958
(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
FLORIDA, TOTAL.....	7,331	1,821	217,629	1,098,797	148,413	305,067	628,315	2,326,335	185,666	171,257	1,410,843
STANDARD METROPOLITAN STATISTICAL AREAS											
Fort Lauderdale-Hollywood ⁴	578	116	9,837	43,725	6,804	13,559	26,833	78,310	4,234	6,312	40,051
Jacksonville ⁵	536	183	20,480	102,067	14,770	29,878	64,780	241,707	10,546	19,228	176,641
Miami ⁶	1,905	529	43,627	189,513	31,791	63,002	119,787	362,829	20,168	36,893	252,123
Orlando ⁷	362	100	19,795	124,949	8,508	17,317	36,846	235,125	15,569	10,800	112,384
Pensacola ⁸	136	43	13,180	76,118	10,170	20,963	53,376	215,090	28,253	12,595	178,665
Tampa-St. Petersburg ⁹	1,134	270	37,545	190,885	25,872	53,201	111,594	406,697	21,632	32,219	232,584
West Palm Beach ¹⁰	304	64	11,960	73,875	6,357	13,478	33,642	138,624	6,906	13,420	29,900
COUNTIES ¹											
Alachua.....	72	23	2,971	13,998	2,319	4,702	9,255	23,805	3,843	2,208	13,889
Bay.....	63	14	1,998	11,358	1,550	3,183	7,474	31,069	6,011	2,151	36,249
Bradford.....	17	4	538	2,271	476	849	1,849	2,618	(Z)	644	2,892
Brevard.....	99	32	4,478	31,802	1,688	3,708	8,927	35,653	3,618	2,112	12,944
Broward.....	578	116	9,837	43,725	6,804	13,559	26,833	78,310	4,234	6,312	40,051
Clay.....	28	4	491	1,705	345	696	908	5,466	500	650	2,196
Columbia.....	41	11	919	3,359	802	1,671	2,717	8,249	(Z)	645	4,147
Dade.....	1,905	529	43,627	189,513	31,791	63,002	119,787	362,829	20,168	36,893	252,123
De Soto.....	29	3	337	1,166	255	549	892	3,463	(Z)	201	1,282
Dixie.....	23	4	363	1,149	317	648	915	1,799	(Z)	293	995
Duval.....	536	183	20,480	102,067	14,770	29,878	64,780	241,707	10,546	19,228	176,641
Gadsden.....	46	15	1,398	5,829	1,198	2,264	2,933	6,637	(Z)	1,686	5,888
Hardee.....	11	4	255	794	227	442	636	2,615	(Z)	364	2,761
Hillsborough.....	629	193	23,052	107,055	17,393	35,679	72,183	261,396	13,047	22,441	172,659
Indian River.....	35	9	1,120	5,492	781	1,642	3,469	8,479	564	452	2,914
Jackson.....	56	8	1,152	3,511	1,017	2,131	2,905	12,687	(Z)	924	2,654
Lake.....	87	21	1,541	5,834	1,266	2,561	4,271	15,530	836	1,022	11,508
Lee.....	81	14	911	3,617	655	1,362	2,265	6,402	(Z)	855	5,221
Leon.....	72	17	1,552	6,251	1,099	2,238	3,907	12,248	(Z)	1,799	9,479
Liberty.....	18	3	256	860	223	430	695	1,477	(Z)	273	1,643
Madison.....	48	6	635	1,939	572	1,184	1,654	5,127	(Z)	642	1,643
Manatee.....	88	22	2,097	9,566	1,606	3,562	6,727	23,531	1,934	1,661	14,134
Marion.....	97	24	1,856	7,169	393	791	5,592	17,984	1,116	1,626	11,888
Monroe.....	37	6	396	1,204	270	512	723	2,511	(Z)	271	1,606
Nassau.....	52	8	1,989	11,399	1,735	3,550	9,278	33,715	3,727	1,852	17,653
Okaloosa.....	35	5	567	1,737	503	982	1,492	2,953	(Z)	560	1,891
Orange.....	310	85	18,443	119,344	7,401	15,129	32,653	222,659	14,490	9,992	106,672
Osceola.....	26	8	496	1,942	393	791	1,500	4,495	(Z)	311	1,324
Palm Beach.....	304	64	11,960	73,875	6,357	13,478	33,642	138,624	6,906	13,420	29,900
Pinellas.....	505	77	14,493	83,830	8,479	17,522	39,411	145,301	8,585	9,778	62,925
Polk.....	248	98	12,793	57,509	10,144	21,982	41,433	157,245	37,240	10,179	94,250
Putman.....	65	9	2,796	14,867	2,448	4,805	12,671	29,035	2,989	2,858	25,956
St. Johns.....	42	7	1,394	6,662	1,062	2,139	4,562	11,569	1,010	403	2,658
St. Lucie.....	30	11	879	3,786	540	1,127	1,866	10,460	(Z)	771	6,764
Sarasota.....	144	20	2,757	18,408	1,640	3,474	6,695	25,974	1,565	1,782	14,424
Seminole.....	52	15	1,352	5,605	1,107	2,188	4,193	12,466	1,079	808	5,712
Suwannee.....	22	5	349	885	298	562	758	1,698	(Z)	350	1,101
Taylor.....	42	6	1,272	7,784	1,019	2,150	5,209	20,964	1,540	1,095	10,073
Volusia.....	179	30	4,241	30,614	2,220	4,660	8,995	56,954	4,493	2,460	15,574
Walton.....	25	3	291	875	230	464	591	1,540	(Z)	213	887
Washington.....	24	3	256	988	230	434	510	823	(Z)	234	861

(Z) Less than \$500 thousand. ^R Revised.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The Fort Lauderdale-Hollywood Standard Metropolitan Statistical Area is coextensive with Broward County, Fla.

⁵The Jacksonville Standard Metropolitan Statistical Area is coextensive with Duval County, Fla.

⁶The Miami Standard Metropolitan Statistical Area is coextensive with Dade County, Fla.

⁷The Orlando Standard Metropolitan Statistical Area consists of Orange and Seminole Counties.

⁸The Pensacola Standard Metropolitan Statistical Area consists of Escambia and Santa Rosa Counties.

⁹The Tampa-St. Petersburg Standard Metropolitan Statistical Area consists of Hillsborough and Pinellas Counties.

¹⁰The West Palm Beach Standard Metropolitan Statistical Area is coextensive with Palm Beach County, Fla.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new*	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	7,331	1,821	217,629	1,098,797	148,413	305,067	628,315	2,326,335	185,666	171,257	1,410,843
20	Food and kindred products.....	903	369	40,368	169,467	26,268	56,063	94,746	499,009	32,754	36,429	321,957
201	Meat products.....	78	33	3,587	15,095	2,791	5,999	10,107	27,601	1,778	3,560	24,316
202	Dairies.....	89	49	5,620	27,330	1,843	4,278	8,318	75,596	3,555	5,980	53,656
203	Canned and frozen foods.....	193	103	14,715	49,954	12,630	26,351	38,531	179,736	13,648	12,732	114,659
204	Grain mill products.....	54	14	1,014	4,475	626	1,456	2,194	11,757	2,009	1,566	11,720
207	Candy and related products.....	22	5	344	1,110	286	571	801	2,774	(Z)	307	1,419
208	Beverages.....	163	82	5,224	25,280	2,162	4,584	9,458	65,996	4,839	3,951	34,284
209	Miscellaneous foods and kindred products.....	179	32	2,555	11,175	1,654	3,429	6,057	60,180	1,853	2,437	33,446
21	Tobacco manufactures.....	51	25	5,489	17,124	4,992	9,024	13,966	35,778	730	7,635	41,340
212	Cigars.....	45	20	4,979	16,094	4,508	8,180	13,039	34,631	721	6,920	39,322
22	Textile mill products.....	34	14	1,038	3,733	911	1,797	3,022	7,582	(Z)	911	5,231
225	Knitting mills.....	11	6	615	2,283	561	1,077	1,904	4,237	(Z)	538	2,853
23	Apparel and related products....	403	152	10,734	32,411	9,559	17,620	26,162	56,068	1,191	6,649	29,249
232	Men's and boys' furnishings....	30	19	1,775	4,927	1,615	2,907	4,040	8,455	(Z)	1,788	5,823
233	Women's and misses' outerwear..	151	83	5,414	16,179	4,803	8,808	13,126	28,101	607	2,608	13,035
236	Children's outerwear.....	23	16	964	3,058	856	1,605	2,412	5,558	(Z)	669	2,901
239	Fabricated textiles, n.e.c.....	162	20	1,332	4,308	1,147	2,160	3,283	7,486	(Z)	882	4,509
24	Lumber and wood products.....	1,087	147	12,602	40,583	10,920	21,625	32,709	71,005	7,709	13,530	56,286
243	Millwork and related products..	262	49	3,296	13,138	2,691	5,496	9,733	22,168	1,694	2,902	13,960
244	Wooden containers.....	33	18	1,954	5,765	1,781	3,354	4,695	9,379	315	2,162	7,727
249	Miscellaneous wood products....	77	14	1,040	3,575	885	1,770	2,682	7,053	653	1,000	6,354
25	Furniture and fixtures.....	421	97	6,777	26,821	5,562	11,353	19,963	47,438	1,929	6,929	38,194
251	Household furniture.....	290	80	5,480	20,415	4,600	9,321	15,462	37,669	1,580	5,704	31,195
254	Partitions and fixtures.....	75	14	942	4,859	708	1,484	3,430	7,179	(Z)	743	4,344
259	Furniture and fixtures, n.e.c.....	48	1	258	1,011	183	386	745	1,863	(Z)	347	1,947
26	Paper and allied products.....	104	62	13,304	81,397	11,002	22,138	60,381	200,686	19,246	13,212	151,538
264	Paper and paperboard products..	42	18	3,143	16,204	2,698	5,355	12,964	24,876	2,243	2,824	15,549
265	Paperboard containers and boxes.....	46	32	2,932	14,578	2,264	4,721	9,815	25,799	2,088	2,469	17,638
27	Printing and publishing.....	979	144	16,419	83,650	9,321	18,303	46,278	156,627	15,102	12,767	103,628
271	Newspapers.....	207	56	10,424	52,489	4,735	8,987	23,697	103,957	11,455	8,295	70,471
275	Commercial printing.....	522	60	4,022	20,708	3,207	6,574	15,755	36,059	2,590	3,090	22,081
276	Manifold business forms.....	13	7	374	2,104	266	532	1,157	3,445	(Z)	218	1,565
278	Bookbinding and related work....	25	5	327	1,249	299	618	1,087	1,697	(Z)	217	1,120
279	Printing trades services.....	71	8	508	3,208	381	731	2,560	4,341	(Z)	397	3,439
28	Chemicals and allied products....	376	110	18,239	103,798	13,519	28,225	68,910	315,324	54,541	14,534	233,399
281	Basic chemicals.....	43	20	1,605	10,000	1,139	2,319	6,361	36,918	7,082	726	15,376
283	Drugs.....	32	5	489	2,116	322	623	1,088	6,079	(Z)	281	2,906
284	Cleaning and toilet goods.....	77	4	417	1,872	277	577	903	5,925	(Z)	291	2,946
285	Paints and allied products.....	59	14	835	4,154	491	997	2,020	21,005	(Z)	588	8,340
287	Agricultural chemicals.....	90	54	6,300	34,465	4,587	10,169	22,885	91,796	28,567	5,073	64,956
29	Petroleum and coal products....	41	15	831	3,984	584	1,297	2,443	9,298	610	701	6,405
295	Paving and roofing materials....	34	12	673	3,215	487	1,089	2,037	7,328	510	473	5,038
30	Rubber and plastics products, n.e.c.....	121	25	1,488	6,614	1,208	2,401	4,690	13,200	955	711	3,687
306	Rubber products, n.e.c.....	107	19	1,155	5,038	919	1,812	3,445	10,871	877	531	3,049
31	Leather and leather products....	49	17	1,812	5,686	1,572	2,928	4,357	9,702	(Z)	889	4,903
317	Purses and small leather goods.....	20	9	815	2,227	730	1,301	1,796	3,121	(Z)	283	1,582
32	Stone, clay and glass products..	604	164	13,086	58,251	9,461	20,747	38,624	147,163	9,883	12,422	105,896
323	Products of purchased glass....	23	4	266	958	218	428	707	1,875	(Z)	446	2,568
325	Structural clay products.....	18	9	1,217	5,027	1,027	2,580	3,800	11,132	848	407	2,881
327	Concrete and plaster products..	497	140	9,225	39,943	6,190	13,754	24,148	97,358	7,156	9,892	79,704
329	Nonmetallic mineral products..	29	3	695	3,572	560	1,101	2,615	13,376	903	262	1,743
33	Primary metal industries.....	77	24	2,340	11,621	1,976	4,113	9,125	31,114	2,052	1,508	11,487
335	Nonferrous rolling and drawing.....	10	5	707	3,845	599	1,406	3,107	12,851	1,227	639	6,162
336	Nonferrous foundries.....	27	3	321	1,096	280	489	919	1,487	(Z)	175	1,089

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products.....	603	153	14,268	70,082	10,974	22,370	47,565	127,494	8,740	13,706	104,894
341	Metal cans.....	12	9	1,621	13,297	1,345	3,111	10,817	22,631	4,371	1,591	20,820
342	Cutlery, hand tools, hardware.	32	7	719	3,192	526	1,146	2,112	5,325	(Z)	411	2,364
344	Structural metal products.....	382	107	9,647	43,626	7,236	14,156	27,356	77,668	2,910	9,571	67,081
346	Metal stampings.....	11	4	340	1,286	313	697	1,130	4,591	(Z)	250	1,392
347	Metal services, n.e.c.....	53	9	558	2,253	463	948	1,772	4,295	(Z)	267	1,688
348	Fabricated wire products, n.e.c.....	29	5	494	2,325	398	863	1,594	4,982	(Z)	230	2,443
349	Fabricated metal products, n.e.c.....	52	9	606	2,846	474	935	1,852	5,154	(Z)	1,214	8,022
35	Machinery, except electrical....	478	81	6,844	36,285	5,041	10,303	23,682	93,308	3,079	3,998	27,747
352	Farm machinery and equipment..	42	7	891	4,615	530	1,066	2,297	9,732	(Z)	260	2,113
353	Construction and like equipment.....	17	5	258	1,485	186	380	972	3,418	(Z)	193	1,441
354	Metalworking machinery.....	78	15	877	5,041	712	1,535	3,879	7,970	596	531	4,255
356	General industrial machinery..	50	9	547	2,807	398	851	1,798	5,761	(Z)	667	3,838
358	Service industry machines.....	53	8	501	2,580	348	716	1,533	4,325	(Z)	344	2,341
359	Miscellaneous machinery.....	190	21	1,678	8,031	1,373	2,819	6,374	12,526	792	1,266	9,984
36	Electrical machinery.....	199	72	15,024	104,042	8,638	17,908	43,791	155,608	10,446	5,046	37,536
366	Communication equipment.....	41	23	10,074	77,378	5,204	10,792	28,571	112,883	5,595	1,255	10,627
367	Electronic components.....	52	24	2,088	10,869	1,640	3,412	7,377	18,343	1,413	1,121	8,190
369	Electrical products, n.e.c....	38	11	2,013	12,199	1,127	2,365	5,474	16,384	3,155	1,317	9,110
37	Transportation equipment.....	357	89	16,626	100,188	11,204	23,258	58,525	131,800	7,341	9,647	56,442
371	Motor vehicles and equipment..	59	9	834	3,671	683	1,492	2,763	5,254	1,729	494	3,292
372	Aircraft and parts.....	39	20	8,703	60,875	4,517	9,681	27,500	75,395	3,320	2,275	15,277
373	Ship and boat building.....	209	43	5,826	29,705	4,939	9,984	23,750	40,090	1,810	6,349	33,985
38	Instruments and related products	84	15	2,046	9,743	1,657	3,412	6,939	24,140	2,205	784	3,907
384	Medical instruments and supplies.....	37	2	708	3,765	588	1,264	2,933	10,429	1,799	109	698
39	Miscellaneous manufacturing, including ordnance ³	360	46	14,317	110,083	5,252	10,182	22,437	194,011	6,511	5,804	67,117
394	Toys and sporting goods.....	71	10	818	2,490	731	1,360	1,962	4,697	(Z)	538	3,220
398	Miscellaneous manufactures ³ ...	212	31	13,105	106,119	4,197	8,208	19,317	185,943	6,217	4,908	62,280
399												
190	Administrative and auxiliary ⁴ ...	-	-	3,977	23,234	-	-	-	-	-	3,439	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^r Revised.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MIAMI SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	1,905	529	43,627	189,513	31,791	63,002	119,787	362,829	20,168	36,893	252,123
20	Food and kindred products.....	158	68	7,644	34,816	4,081	8,598	15,647	74,702	3,357	6,917	58,684
202	Dairies.....	23	12	1,837	9,539	638	1,437	3,160	29,968	1,156	2,393	22,550
203	Canned and frozen foods.....	33	16	1,634	5,402	1,257	2,376	3,306	11,093	844	938	6,380
205	Bakery products.....	26	12	2,073	9,321	1,092	2,407	4,717	14,288	565	1,547	11,202
208	Beverages.....	26	12	1,079	5,790	408	831	1,864	8,614	(Z)	992	9,274
23	Apparel and related products....	269	111	6,272	19,532	5,490	10,121	15,159	35,330	669	3,769	19,204
233	Women's and misses' outerwear.	123	66	3,531	11,005	3,064	5,622	8,503	19,576	(Z)	2,093	10,995
239	Fabricated textiles, n.e.c....	88	15	909	2,894	791	1,507	2,190	4,839	(Z)	558	2,904
24	Lumber and wood products.....	73	12	891	3,766	717	1,373	5,946	(Z)	905	6,575	
243	Millwork and related products.	39	11	675	3,074	532	1,005	2,220	4,951	(Z)	746	4,712
25	Furniture and fixtures.....	155	50	3,196	13,035	2,587	5,323	9,509	21,451	761	3,728	19,988
251	Household furniture.....	107	38	2,528	9,542	2,092	4,264	7,113	16,195	559	3,215	16,970
26	Paper and allied products.....	33	17	1,204	5,630	953	1,923	3,736	10,451	1,029	842	6,489
265	Paperboard containers and boxes.....	14	10	783	3,655	616	1,249	2,320	7,550	(Z)	578	4,157
27	Printing and publishing.....	266	44	4,455	24,671	2,678	5,188	14,025	44,630	5,522	3,824	33,213
275	Commercial printing.....	160	23	1,364	7,229	1,087	2,216	5,448	10,851	952	1,004	7,517
28	Chemicals and allied products...	91	13	939	4,285	574	1,186	2,098	11,219	592	688	6,705
31	Leather and leather products....	37	13	1,444	4,694	1,254	2,338	3,482	8,415	(Z)	628	3,145
32	Stone, clay and glass products..	118	26	2,394	10,723	1,838	3,753	7,597	25,289	1,202	2,196	16,621
327	Concrete and plaster products.	79	17	1,407	6,228	1,002	2,089	4,024	13,297	701	1,507	12,526
33	Primary metal industries.....	26	8	803	3,685	668	1,441	2,852	10,363	954	550	4,426
34	Fabricated metal products.....	204	69	6,827	29,543	5,234	10,290	18,696	55,743	1,845	6,782	43,130
344	Structural metal products.....	114	49	5,123	21,855	3,887	7,371	13,193	41,185	1,248	5,807	37,052
35	Machinery, except electrical....	105	14	980	5,185	729	1,510	3,621	9,682	(Z)	770	5,273
36	Electrical machinery.....	57	17	1,363	7,095	1,006	2,057	4,808	12,531	(Z)	746	4,179
37	Transportation equipment.....	98	28	1,719	8,043	1,397	2,809	6,268	13,634	1,545	2,054	11,445
372	Aircraft and parts.....	12	6	370	1,622	277	519	1,058	4,320	170	744	4,228
373	Ship and boat building.....	57	16	1,034	4,792	867	1,768	3,921	6,691	473	1,171	6,488
39	Miscellaneous manufacturing.....	110	16	1,365	5,064	1,177	2,266	3,975	9,404	799	885	5,560
--	Administrative and auxiliary ³ ...	-	-	447	2,218	-	-	-	-	-	365	-

-Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S11

Area series

GEORGIA

preliminary report

Value added by manufacturing in 1963 in the State of Georgia amounted to \$3,239 million, an increase of 13 percent from 1962 and 54 percent from 1958. Of this total, \$619 million was contributed by the Textile Mill Industries and \$516 million by the Transportation Equipment Industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	6,237	2,069	355,361	1,505,277	290,890	585,300	1,073,728	3,238,776	166,673	113	154
1962.....	(NA)	(NA)	†327,793	†1,346,927	271,186	546,295	956,476	2,856,465	191,244	104	136
1961 ³	(NA)	(NA)	†316,872	†1,229,876	262,095	521,950	875,123	2,447,746	148,372	101	116
1960.....	(NA)	(NA)	†322,618	†1,210,762	266,635	525,456	862,640	2,496,866	173,125	103	119
1959.....	(NA)	(NA)	†324,125	†1,193,235	270,051	540,971	864,543	2,456,623	175,371	103	117
1958.....	5,796	1,844	†314,088	†1,074,972	261,099	500,334	775,947	2,102,332	155,885	100	100

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. †Revised. (X) Not applicable.
¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

March 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

GEORGIA

Incorporated places of 100,000 and over 
 Incorporated places of 25,000-100,000 
 Standard Metropolitan Statistical Areas 

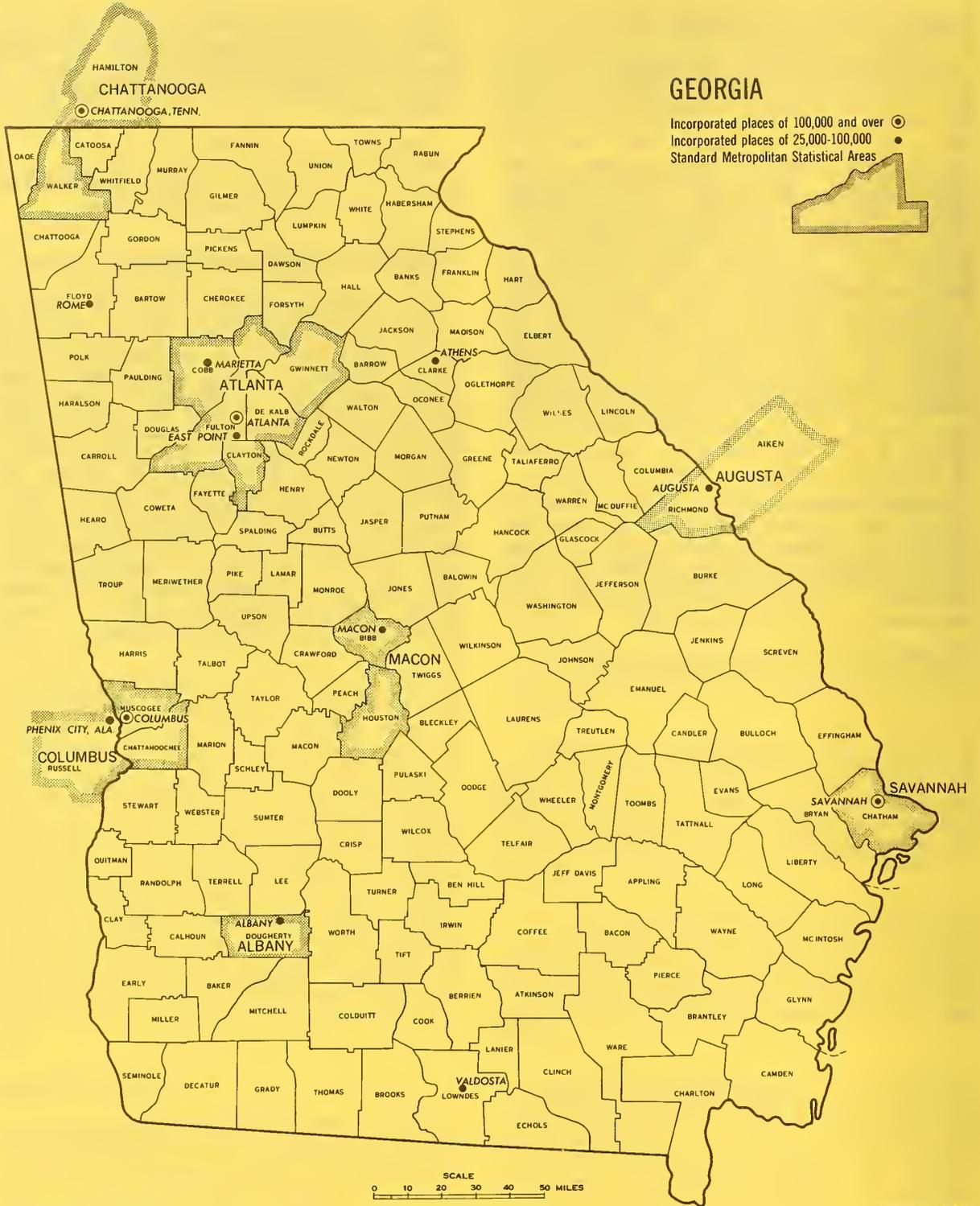
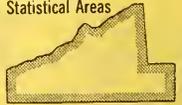


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture, new ³	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
GEORGIA, TOTAL.....	6,237	2,069	355,361	1,505,277	290,890	585,300	1,073,728	3,238,776	166,673	314,088	2,102,332
STANDARD METROPOLITAN STATISTICAL AREAS											
Albany ⁴	79	36	4,726	17,905	3,746	7,561	12,348	37,920	3,560	3,307	24,537
Atlanta ⁵	1,439	551	95,805	538,208	68,041	139,827	329,006	1,140,546	41,092	83,534	711,947
Augusta ⁶	185	87	25,291	135,909	18,057	37,773	79,215	321,063	11,548	23,103	209,958
Portion in South Carolina.....	66	26	14,869	90,448	10,143	21,059	49,649	219,124	4,764	14,840	161,247
Portion in Georgia.....	119	61	10,422	45,461	7,914	16,714	29,566	101,939	6,785	8,263	48,711
Chattanooga ⁷	445	203	39,053	193,408	30,726	61,899	136,229	404,642	21,719	40,945	337,482
Portion in Georgia.....	48	19	3,963	15,349	3,509	7,543	12,593	30,818	1,817	5,493	27,479
Portion in Tennessee.....	397	184	35,090	178,059	27,217	54,356	123,636	373,824	19,902	35,452	310,003
Columbus ⁸	182	69	16,517	61,998	13,634	27,754	45,117	139,019	5,949	17,105	99,574
Portion in Georgia.....	139	59	15,705	59,550	12,932	26,300	43,029	133,506	5,377	16,338	96,682
Portion in Alabama.....	43	10	812	2,448	702	1,454	2,088	5,513	572	767	2,892
Macon ⁹	211	83	11,327	48,780	9,015	17,273	33,912	117,417	5,078	10,964	85,014
Savannah ¹⁰	209	74	14,803	75,613	11,576	23,463	53,532	214,823	12,173	14,590	172,987
COUNTIES ¹											
Appling.....	26	5	481	1,431	415	853	1,111	2,562	(Z)	408	4,059
Bacon.....	11	3	308	861	266	527	684	2,203	(Z)	153	4,37
Baldwin.....	28	11	2,532	10,018	2,168	4,354	7,604	18,233	1,312	1,895	8,939
Banks.....	9	2	554	1,470	524	1,030	1,376	1,674	(Z)	208	574
Barrow.....	23	16	2,409	7,315	2,222	4,315	6,269	13,621	(Z)	2,227	8,092
Bartow.....	57	26	3,229	11,184	2,855	5,246	8,758	26,172	1,647	2,447	12,069
Ben Hill.....	30	8	1,289	3,503	1,108	2,119	3,023	6,428	(Z)	1,215	4,170
Berrien.....	24	3	294	816	252	429	621	2,317	(Z)	234	1,274
Bibb.....	182	76	10,698	46,442	8,530	16,322	32,230	110,496	4,729	10,554	81,039
Bleckley.....	12	3	808	2,097	788	1,606	2,040	2,438	(Z)	728	1,904
Brooks.....	18	5	314	944	208	437	557	1,526	(Z)	326	1,318
Bulloch.....	27	10	1,208	4,100	968	1,918	2,751	7,725	(Z)	743	3,658
Burke.....	26	10	1,307	3,312	1,162	2,275	2,729	6,932	(Z)	839	1,633
Butts.....	16	4	656	1,952	596	1,139	1,615	2,431	(Z)	685	1,751
Calhoun.....	17	5	320	842	264	528	621	1,631	(D)	199	834
Carroll.....	90	39	4,785	16,609	4,231	8,118	13,449	29,024	2,605	3,327	16,142
Chatham.....	209	74	14,803	75,613	11,576	23,463	53,532	214,823	12,173	14,590	172,987
Chattooga.....	16	8	4,284	15,603	3,893	7,978	13,506	36,114	2,653	4,277	22,764
Cherokee.....	49	8	2,355	6,674	2,129	3,854	5,497	9,339	720	2,085	9,203
Clarke.....	72	33	5,175	20,237	4,137	8,258	13,452	40,086	1,625	4,791	26,281
Clayton.....	54	17	1,533	7,861	1,278	2,782	5,908	11,515	2,292	427	2,744
Clinc..	40	4	573	2,122	518	1,060	1,798	2,901	(Z)	405	1,578
Cobb.....	126	39	21,358	144,967	13,846	28,072	83,715	187,100	5,057	17,213	133,975
Coffee.....	43	10	1,008	3,125	851	1,637	2,377	6,163	(Z)	953	3,550
Colquitt.....	5	20	2,308	9,334	1,925	4,031	7,179	15,006	1,032	2,067	9,635
Columbia.....	16	4	499	1,136	450	839	934	1,781	(Z)	929	8,579
Cook.....	22	9	1,526	5,185	1,466	3,081	4,698	11,139	1,124	694	4,198
Coweta.....	49	25	4,794	17,881	4,313	8,778	14,623	38,888	1,074	4,579	26,791
Crisp.....	36	15	1,429	4,883	1,172	2,203	3,547	10,629	(Z)	978	6,631
Decatur.....	29	11	1,288	4,426	1,114	2,342	3,300	8,907	(Z)	1,054	5,450
De Kalb.....	254	74	10,274	60,732	7,824	16,869	41,546	181,153	7,511	8,409	82,746
Dodge.....	35	4	1,038	2,989	780	1,578	2,358	7,662	(Z)	753	3,298
Dougherty.....	79	36	4,726	17,905	3,746	7,561	12,348	37,920	3,560	3,307	24,537
Douglas.....	26	5	411	1,574	332	674	1,276	2,790	(Z)	257	1,349
Early.....	16	1	295	1,546	229	514	1,416	2,578	(Z)	216	851
Elbert.....	76	24	2,545	9,198	2,201	4,239	7,258	14,286	691	1,975	9,746
Emanuel.....	31	14	1,766	4,958	1,599	3,163	4,297	6,549	(Z)	765	2,914
Evans.....	22	6	383	1,186	323	638	934	2,406	(Z)	325	2,301
Fannin.....	20	2	537	1,239	506	906	1,162	3,034	533	191	953
Fayette.....	17	4	303	1,071	244	461	719	2,681	(Z)	158	450
Floyd.....	98	46	10,071	47,498	8,360	17,204	35,654	104,693	5,302	10,117	70,829
Forsyth.....	21	6	907	2,627	851	1,732	2,329	6,130	(Z)	631	3,986
Franklin.....	18	8	1,182	3,518	1,109	2,185	3,095	5,463	(Z)	1,488	4,996
Fulton.....	945	401	59,729	314,000	42,537	87,026	189,606	742,872	25,545	55,284	481,014
Gilmer.....	27	7	932	2,588	860	1,643	2,246	4,092	(Z)	790	3,520
Glynn.....	72	22	5,068	24,721	4,156	8,115	18,328	107,729	11,099	4,516	57,616
Gordon.....	29	24	3,222	11,182	2,884	6,079	9,011	38,683	1,175	1,859	9,698
Grady.....	36	5	1,329	3,266	1,180	2,034	2,594	6,482	619	986	3,541
Greene.....	34	7	1,010	2,684	933	1,794	2,381	3,760	(Z)	1,116	3,175
Gwinnett.....	60	20	2,906	10,648	2,551	5,078	8,231	17,906	687	2,201	11,468
Habersham.....	44	18	2,873	9,923	2,497	5,254	8,148	17,807	1,197	2,288	14,070
Hall.....	94	42	8,002	28,813	6,997	14,816	22,631	49,130	3,098	7,293	47,074
Hancock.....	24	5	467	1,076	425	823	973	1,681	(Z)	303	686
Haralson.....	29	13	4,711	18,859	4,463	8,496	15,075	30,641	772	3,680	18,098
Harris.....	30	4	490	1,237	443	772	1,028	2,241	(Z)	582	1,587

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ⁴	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Hart.....	19	9	2,384	10,162	2,082	4,333	7,268	21,651	1,331	1,302	8,248
Heard.....	18	2	303	862	274	552	678	4,945	(Z)	157	343
Henry.....	23	8	991	4,244	765	1,461	2,505	7,720	(Z)	860	5,535
Houston.....	29	7	629	2,338	485	951	1,682	6,921	(Z)	410	3,975
Jackson.....	16	11	2,430	8,249	2,174	4,079	6,347	13,602	936	2,453	10,090
Jasper.....	20	4	377	941	333	584	795	1,405	(Z)	85	201
Jeff Davis.....	27	5	1,416	4,380	1,288	2,800	3,824	8,218	(Z)	1,222	4,612
Jefferson.....	35	7	1,071	3,269	928	1,707	2,645	4,529	(Z)	946	3,585
Jenkins.....	12	4	563	1,637	528	1,013	1,410	2,218	(Z)	615	1,689
Johnson.....	13	6	575	1,467	545	1,024	1,364	2,061	(Z)	473	2,081
Laurens.....	48	12	2,642	9,220	2,438	4,925	8,237	18,217	873	1,615	11,648
Lowndes.....	68	25	3,535	14,418	3,025	5,972	11,332	39,163	1,623	3,032	26,142
McDuffie.....	24	8	1,494	4,703	1,301	2,552	3,749	12,745	1,313	1,481	8,178
Macon.....	19	5	967	2,516	908	1,507	2,180	6,210	(Z)	1,025	2,447
Madison.....	16	4	541	1,393	488	870	1,193	1,710	(Z)	413	1,135
Meriwether.....	29	8	1,548	4,734	1,422	2,853	4,054	7,181	518	1,900	13,260
Mitchell.....	38	16	1,118	3,407	1,008	1,890	1,029	6,343	636	939	3,473
Monroe.....	40	11	1,393	4,185	1,305	2,530	3,645	6,519	(Z)	578	2,901
Montgomery.....	10	3	421	1,129	397	821	1,014	1,581	(Z)	317	1,039
Morgan.....	16	4	646	1,999	596	1,187	1,767	3,305	(Z)	385	2,051
Newton.....	17	10	3,317	10,300	3,081	6,097	9,105	13,844	740	3,000	11,295
Paulding.....	29	4	467	1,193	423	787	1,029	1,953	(Z)	474	1,436
Peach.....	21	9	1,196	4,510	997	2,043	3,096	8,894	(Z)	1,084	4,331
Pickens.....	24	4	859	3,037	769	1,576	2,744	4,730	(Z)	1,136	5,248
Polk.....	37	16	3,559	14,085	3,071	6,042	11,023	29,029	1,805	3,273	21,619
Pulaski.....	11	2	472	1,481	450	1,057	1,350	2,313	(D)	377	1,577
Putnam.....	21	5	950	3,144	878	1,784	2,812	4,989	738	741	3,456
Randolph.....	21	7	598	1,838	547	1,140	1,553	2,929	(Z)	511	1,977
Richmond.....	119	61	10,422	45,461	7,914	16,714	29,566	101,939	6,785	8,263	48,711
Rockdale.....	30	12	1,293	5,074	1,041	2,042	3,433	18,791	761	961	3,556
Screven.....	49	6	677	1,887	621	1,250	1,626	3,951	(Z)	494	1,349
Spalding.....	49	21	6,965	24,157	6,327	12,446	20,003	34,473	2,805	6,902	24,978
Stephens.....	39	15	3,872	14,414	3,374	6,634	11,442	26,394	848	3,136	22,221
Stewart.....	18	4	263	736	210	390	528	1,444	(Z)	227	733
Sumter.....	37	13	1,928	6,607	1,736	3,537	5,574	18,930	(Z)	1,520	8,239
Talbot.....	28	5	692	1,795	618	1,067	1,545	3,979	(Z)	303	1,197
Tattnell.....	27	4	467	1,054	427	758	918	1,583	(Z)	104	279
Telfair.....	34	8	747	1,929	663	1,306	1,656	3,600	(Z)	542	1,798
Thomas.....	46	18	2,575	9,775	2,004	4,086	6,517	13,801	718	2,408	10,010
Toombs.....	41	10	1,337	3,609	1,226	2,431	3,125	7,024	(Z)	1,389	5,246
Troup.....	70	29	7,757	27,666	6,521	12,603	19,923	54,652	2,024	8,315	40,002
Walker.....	48	19	3,963	15,349	3,509	7,543	12,593	30,818	1,817	5,493	27,479
Walton.....	24	12	3,188	10,497	2,867	6,074	8,977	18,095	641	2,358	7,882
Ware.....	78	16	2,386	7,508	2,130	4,112	6,155	18,577	684	1,900	9,438
Washington.....	68	10	1,021	2,618	896	1,657	2,152	4,342	685	1,290	5,931
Wayne.....	35	5	1,414	7,116	1,205	2,458	5,915	20,040	821	1,817	16,244
White.....	20	4	634	2,058	585	1,138	1,812	7,037	(Z)	502	3,438
Whitfield.....	184	90	11,189	42,974	9,489	19,503	31,538	92,110	4,156	9,014	60,741
Wilcox.....	13	2	422	944	410	748	909	1,137	(Z)	281	567
Wilkes.....	37	7	1,360	4,061	1,047	1,921	2,667	8,629	533	996	3,202
Wilkinson.....	26	4	539	1,922	476	922	1,668	2,667	(Z)	359	1,041
Worth.....	13	4	251	693	231	399	591	881	(Z)	265	818

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^rRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Albany Standard Metropolitan Statistical Area is coextensive with Dougherty County, Ga.⁵The Atlanta Standard Metropolitan Statistical Area consists of Clayton, Cobb, De Kalb, Fulton, and Gwinnett Counties, Ga.⁶The Augusta Standard Metropolitan Statistical Area consists of Richmond County, Ga., and Aiken County, S.C.⁷The Chattanooga Standard Metropolitan Statistical Area consists of Hamilton County, Tenn., and Walker County, Ga.⁸The Columbus Standard Metropolitan Statistical Area consists of Chattoochee and Muscogee Counties, Ga., and Russell County, Ala.⁹The Macon Standard Metropolitan Statistical Area consists of Bibb and Houston Counties, Ga.¹⁰The Savannah Standard Metropolitan Statistical Area is coextensive with Chatham County, Ga.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	6,237	2,069	355,361	1,505,277	290,890	585,300	1,073,728	3,238,776	166,673	314,088	2,102,332
20	Food and kindred products.....	832	345	42,301	171,723	29,438	60,719	100,347	437,756	23,494	41,373	344,517
201	Meat products.....	162	68	11,142	39,700	9,567	19,702	29,995	57,834	3,339	11,126	62,601
202	Dairies.....	82	39	4,215	19,175	1,722	3,956	7,324	35,947	2,323	4,183	33,448
203	Canned and frozen foods.....	61	34	5,486	14,595	4,927	9,063	11,356	34,460	2,455	5,072	24,623
204	Grain mill products.....	150	33	2,122	9,011	1,395	3,185	5,031	36,834	2,909	2,177	32,428
207	Candy and related products.....	24	12	2,364	8,865	1,783	3,556	5,690	24,781	1,557	2,571	16,656
208	Beverages.....	140	73	5,020	22,575	1,939	4,271	6,714	83,510	4,374	4,255	53,810
209	Miscellaneous foods and kindred products.....	145	46	4,030	18,411	2,685	5,623	10,230	54,893	3,292	4,376	39,231
22	Textile mill products.....	374	289	93,798	333,941	85,980	174,184	285,006	618,904	37,093	94,933	442,812
221	Weaving mills, cotton.....	69	64	41,161	146,400	38,257	78,190	128,359	230,288	15,670	44,016	178,012
222	Weaving mills, synthetics.....	17	16	5,328	20,257	4,763	10,125	16,872	37,283	2,994	4,942	24,572
223	Weaving, finishing mills, wool.....	11	9	3,486	14,067	3,212	6,436	12,344	26,815	1,512	5,479	27,451
225	Knitting mills.....	52	38	8,784	26,445	8,166	14,971	22,881	43,360	806	8,904	39,487
227	Floor covering mills.....	110	73	12,142	46,711	10,556	23,034	36,169	151,779	5,836	7,993	71,941
228	Yarn and thread mills.....	57	53	14,675	49,196	13,462	26,335	41,999	74,582	5,293	14,183	53,084
229	Miscellaneous textile goods.....	31	21	5,608	20,730	5,157	10,075	17,875	38,262	1,367	6,896	36,291
23	Apparel and related products.....	428	314	56,351	168,163	51,114	96,223	139,148	308,402	6,689	39,429	175,314
231	Men's and boys' suits and coats.....	17	14	4,447	18,428	4,073	7,753	14,172	27,929	(Z)	3,097	15,723
232	Men's and boys' furnishings.....	137	131	28,912	82,281	26,564	50,163	69,639	151,838	2,883	19,882	77,937
233	Women's and misses' outerwear.....	64	58	5,404	14,542	4,902	8,672	11,884	23,586	(Z)	2,778	8,895
234	Women's and children's underwear.....	29	21	6,161	20,236	5,668	10,739	16,636	46,063	(Z)	4,858	32,440
236	Children's outerwear.....	15	14	2,133	5,768	2,010	3,896	5,083	9,050	(Z)	1,366	4,852
238	Miscellaneous apparel.....	20	14	2,235	6,088	1,940	3,693	4,856	10,327	(Z)	1,632	7,086
239	Fabricated textiles, n.e.c.....	136	58	6,742	19,766	5,681	10,785	15,988	37,945	1,935	5,591	27,314
24	Lumber and wood products.....	2,030	282	23,662	63,378	21,027	40,038	53,295	111,695	12,059	26,486	94,906
241	Logging camps and contractors.....	1,177	20	5,513	11,589	4,839	9,094	10,388	20,206	4,576	4,900	15,418
242	Sawmills and planing mills.....	647	179	10,080	25,498	8,912	16,918	21,679	46,199	5,207	13,676	43,003
243	Millwork and related products.....	109	42	3,533	11,909	3,141	6,394	9,457	19,989	1,055	3,277	14,476
244	Wooden containers.....	31	21	2,838	8,433	2,696	4,763	7,371	13,919	615	3,307	14,750
249	Miscellaneous wood products.....	66	20	1,698	5,949	1,439	2,869	4,440	11,382	606	1,326	7,259
25	Furniture and fixtures.....	184	62	8,407	29,775	7,359	14,425	22,651	49,250	1,371	6,882	38,647
251	Household furniture.....	111	51	7,444	25,894	6,571	12,840	19,861	42,720	1,159	6,059	33,811
254	Partitions and fixtures.....	38	2	376	1,744	286	605	1,214	2,616	(Z)	284	2,118
26	Paper and allied products.....	107	71	20,452	119,090	16,299	33,566	87,358	337,554	26,119	16,768	228,389
264	Paper and paperboard products.....	41	22	5,013	24,736	4,079	7,785	17,751	43,630	1,947	4,447	33,772
265	Paperboard containers and boxes.....	48	34	5,945	30,364	4,568	9,557	20,534	53,711	4,964	4,344	37,878
27	Printing and publishing.....	569	102	10,216	56,347	6,612	13,442	34,141	99,185	3,938	9,600	78,011
271	Newspapers.....	172	30	4,314	21,902	2,300	4,587	12,159	44,249	1,135	4,092	33,628
272	Periodicals.....	34	4	386	2,487	112	211	481	4,530	(Z)	354	4,091
275	Commercial printing.....	279	41	3,783	21,903	2,988	6,242	15,564	33,273	2,028	3,496	25,721
278	Bookbinding and related work.....	16	6	549	2,930	941	1,968	4,966	9,968	(Z)	300	2,041
279	Printing trades services.....	34	7	419	2,701	308	621	1,966	3,582	(Z)	444	3,918
28	Chemicals and allied products.....	279	112	10,914	57,363	7,569	15,831	32,536	217,624	14,986	9,624	129,396
281	Basic chemicals.....	33	12	1,547	9,469	1,054	2,253	5,635	48,451	4,627	1,357	30,033
283	Drugs.....	12	3	382	1,948	257	535	1,085	9,739	546	266	5,589
284	Cleaning and toilet goods.....	39	20	1,593	9,957	810	1,648	3,494	46,699	4,604	1,260	16,829
285	Paints and allied products.....	27	13	872	5,167	452	906	2,017	23,920	595	843	13,264
286	Gum and wood chemicals.....	16	5	1,152	6,701	922	1,798	4,803	35,737	1,076	1,170	26,488
287	Agricultural chemicals.....	96	42	2,896	10,624	2,288	5,079	7,081	21,039	2,124	2,708	13,714
29	Petroleum and coal products.....	26	10	738	4,113	535	1,142	2,768	11,608	(Z)	646	7,199
295	Paving and roofing materials.....	16	7	531	2,814	398	860	2,018	8,650	(Z)	404	4,719
30	Rubber and plastics products, n.e.c.....	58	26	2,353	9,470	1,977	4,206	6,617	25,947	2,484	1,061	8,755
306	Rubber products, n.e.c.....	22	13	1,262	4,807	1,071	2,254	3,280	11,634	(Z)	685	5,788
31	Leather and leather products.....	27	17	3,957	12,990	3,750	7,504	11,031	25,088	(Z)	3,504	15,247
314	Footwear, except rubber.....	11	9	2,954	9,254	2,822	5,630	8,007	19,215	(Z)	2,608	10,451
32	Stone, clay and glass products.....	361	124	12,374	51,658	10,143	20,614	38,638	120,710	8,733	9,575	72,137
325	Structural clay products.....	15	13	2,887	11,299	2,443	5,056	8,265	20,732	1,645	2,607	15,237
327	Concrete and plaster products.....	226	68	4,423	17,567	3,304	6,961	11,839	46,694	4,688	2,989	23,692
328	Cut stone and stone products.....	74	25	2,317	8,855	2,028	3,964	7,325	15,000	861	2,149	12,019
329	Nonmetallic mineral products.....	25	9	840	3,785	717	1,317	2,889	8,602	669	304	1,775
33	Primary metal industries.....	56	26	3,338	17,512	2,687	5,451	12,635	34,653	2,454	3,252	16,191
332	Iron and steel foundries.....	18	9	723	2,866	638	1,292	2,363	3,552	(Z)	709	2,520

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products.....	261	93	10,879	52,061	9,002	18,820	38,889	106,758	7,503	6,973	48,928
344	Structural metal products....	176	57	6,082	29,545	4,816	9,985	20,943	60,790	3,257	4,398	29,934
346	Metal stampings.....	18	10	1,857	7,718	1,718	3,671	6,679	16,156	1,180	1,244	8,993
347	Metal services, n.e.c.....	16	9	813	3,373	748	1,572	2,795	5,546	1,264	235	1,427
349	Fabricated metal products, n.e.c.....	21	6	696	3,515	538	1,171	2,484	6,371	(Z)	408	3,546
35	Machinery, except electrical...	302	80	9,088	46,192	6,904	14,155	29,204	91,281	3,723	7,972	66,971
352	Farm machinery and equipment.	30	13	1,653	7,322	1,210	2,348	4,229	15,862	655	1,304	8,809
353	Construction and like equipment.....	15	7	1,287	7,781	974	1,892	4,844	18,823	(Z)	1,556	17,099
354	Metalworking machinery.....	28	6	416	2,656	355	727	2,040	4,196	(Z)	404	3,874
355	Special industry machinery...	71	35	3,359	16,326	2,582	5,551	10,253	31,237	1,148	2,750	20,811
356	General industrial machinery...	21	4	662	3,206	447	842	1,802	6,311	(Z)	551	5,803
358	Service industry machinery...	21	7	918	5,029	663	1,396	2,899	8,083	550	678	5,052
36	Electrical machinery.....	61	28	5,379	29,593	3,873	7,969	18,341	73,499	1,918	3,808	41,313
361	Electric distribution products.....	11	10	3,490	20,308	2,366	4,941	11,696	47,732	1,063	2,701	30,068
369	Electrical products, n.e.c....	18	8	645	3,546	545	1,104	2,897	11,683	(Z)	564	6,868
37	Transportation equipment.....	115	48	30,305	223,111	21,236	46,822	143,664	515,766	11,557	24,630	256,141
373	Ship and boat building.....	22	4	1,075	4,800	966	1,695	3,934	6,708	(Z)	1,135	8,598
379	Transportation equipment, n.e.c.....	22	13	1,655	7,210	1,450	3,003	5,455	17,783	690	383	2,642
39	Miscellaneous manufacturing, including ordnance ³	141	32	4,688	18,278	3,933	7,420	12,596	38,399	1,474	4,108	29,593
395	Toys and sporting goods.....	24	9	921	3,176	794	1,517	2,348	3,634	(Z)	596	4,013
398	Miscellaneous manufactures...	89	15	1,543	5,531	1,286	2,030	4,038	10,549	(Z)	1,418	7,137
399												
190												
--	Administrative and auxiliary ⁴ ..	-	-	4,445	33,873	-	-	-	-	-	1,738	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. *Revised.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking on figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ATLANTA SMSA (Consists of Clayton, Cobb, De Kalb, Fulton, and Gwinnett Counties, Ga.)												
	All industries, total ²	1,439	551	95,805	538,208	68,041	139,827	329,006	1,140,546	41,092	83,534	711,947
20	Food and kindred products.....	168	91	11,596	56,164	7,409	15,046	30,283	155,775	7,529	12,002	121,970
201	Meat products.....	16	11	1,547	5,725	1,293	2,566	4,111	9,474	709	2,039	13,163
202	Dairies.....	26	13	1,806	8,894	816	1,915	4,031	14,819	840	1,841	14,449
203	Canned and frozen foods.....	17	7	627	2,698	525	1,002	1,971	7,671	671	643	8,832
204	Grain mill products.....	15	6	289	1,333	225	461	886	4,131	(Z)	335	2,561
205	Bakery products.....	23	17	3,131	15,497	2,169	4,202	9,824	40,451	909	3,153	33,298
207	Candy and related products...	9	5	429	1,485	343	637	854	3,094	(Z)	477	2,485
208	Beverages.....	20	12	1,495	9,219	614	1,339	3,056	41,449	2,268	1,202	22,701
209	Miscellaneous foods and kindred products.....	42	20	2,272	11,313	1,424	2,924	5,550	34,686	1,983	2,312	24,481
22	Textile mill products.....	26	19	6,203	22,769	5,551	10,760	18,271	29,479	1,446	6,189	25,542
221	Weaving mills, cotton.....	7	6	3,685	14,247	3,316	6,698	11,382	18,678	918	3,766	14,505
23	Apparel and related products...	104	59	9,738	32,594	8,037	15,019	22,886	71,089	911	7,072	36,665
231	Men's and boys' furnishings...	17	16	4,622	15,595	3,868	7,262	10,920	38,369	(Z)	3,490	17,997
233	Women's and misses' outerwear.....	20	17	1,119	3,441	998	1,713	2,581	6,353	(Z)	778	3,216
239	Fabricated textiles, n.e.c....	40	13	1,313	3,394	891	1,680	2,424	5,796	(Z)	970	5,061
24	Lumber and wood products.....	98	14	1,144	3,967	920	1,755	2,678	6,860	(Z)	1,614	6,031
243	Millwork and related products	6	6	325	1,387	242	476	819	2,205	(Z)	256	1,443
249	Miscellaneous wood products..	18	5	538	1,966	438	832	1,335	3,822	(Z)	477	2,535
25	Furniture and fixtures.....	73	26	3,861	14,656	3,283	6,441	10,808	23,764	575	3,807	24,224
251	Household furniture.....	37	18	3,302	12,160	2,858	5,570	9,157	19,987	(Z)	3,203	20,512
26	Paper and allied products.....	51	33	5,710	30,043	4,282	8,824	19,039	52,729	4,588	4,311	38,166
265	Paperboard containers and boxes.....	25	18	3,544	18,964	2,620	5,444	11,901	28,978	3,509	2,448	20,416
27	Printing and publishing.....	259	63	6,537	39,136	4,376	9,077	24,292	69,024	2,762	5,912	53,638
272	Periodicals.....	24	4	361	2,364	103	206	445	4,294	(Z)	264	3,844
273	Books.....	10	4	269	1,773	101	175	495	4,243	(Z)	460	4,806
275	Commercial printing.....	150	32	2,955	18,203	2,320	4,832	12,635	26,909	1,716	2,445	19,484
28	Chemicals and allied products..	110	45	2,881	17,671	1,558	3,214	6,843	64,050	2,695	2,626	36,165
281	Basic chemicals.....	18	4	279	1,484	204	433	924	7,004	(Z)	347	4,796
284	Cleaning and toilet goods....	25	16	1,144	7,537	491	977	2,069	26,297	1,421	1,079	12,835
287	Agricultural chemicals.....	9	6	256	1,187	182	402	681	1,522	(Z)	203	1,267
289	Miscellaneous chemical products.....	28	5	391	2,557	234	471	1,112	5,921	(Z)	246	3,136
30	Rubber and plastics products, n.e.c.....	21	8	528	2,651	399	862	1,637	5,835	(Z)	361	3,107
31	Leather and leather products...	12	8	2,038	7,231	1,910	3,867	6,270	15,086	(Z)	1,735	9,463
32	Stone, clay and glass products..	86	35	3,602	16,934	2,876	5,883	12,343	42,040	2,506	2,408	23,580
327	Concrete and plaster products	55	24	1,407	5,841	1,013	2,166	3,650	15,496	1,783	784	6,375
33	Primary metal industries.....	22	11	1,731	10,573	1,402	2,597	7,524	21,413	1,285	2,038	10,417
34	Fabricated metal products.....	129	47	4,003	21,075	2,980	6,048	14,014	40,250	3,468	2,996	23,567
344	Structural metal products....	83	30	2,346	11,581	1,677	3,425	7,059	19,915	1,212	2,032	16,000
349	Fabricated metal products n.e.c.....	11	3	405	2,410	282	580	1,643	4,456	(Z)	363	3,178
35	Machinery, except electrical...	105	30	3,194	18,263	2,409	5,060	11,130	27,961	1,577	3,002	24,746
355	Special industry machinery...	27	13	1,199	6,377	930	1,967	3,969	9,132	(Z)	993	8,444
36	Electrical machinery.....	37	17	2,169	11,377	1,602	3,261	7,745	27,142	576	1,705	18,694
37	Transportation equipment.....	52	22	25,011	197,831	16,716	37,524	125,462	463,458	9,609	21,716	234,523
39	Miscellaneous manufacturing....	67	17	2,581	10,863	2,107	4,124	6,932	21,755	667	2,749	19,910
394	Toys and sporting goods.....	9	4	430	1,493	379	719	1,106	2,391	(Z)	445	3,207
398	Miscellaneous manufactures...	39	8	540	2,051	413	670	1,449	3,312	(Z)	543	2,979
399												
190												
—	Administrative and auxiliary ³ ..	—	—	2,977	23,053	—	—	—	—	—	1,083	—

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^RRevised.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S12

Area series

HAWAII

preliminary report

Value added by manufacturing in 1963 in the State of Hawaii amounted to \$254 million, an increase of 28 percent from 1962 and 54 percent from 1958. Of this total, \$173 million was contributed by the food and kindred products industries and \$17 million by the printing and publishing industries the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	657	194	24,960	106,808	18,716	33,114	67,097	254,454	16,132	104	154
1962 ³	(NA)	(NA)	22,645	94,028	16,159	29,926	57,524	198,982	14,215	95	121
1961 ³	(NA)	(NA)	23,238	93,375	16,840	31,212	57,412	204,491	31,547	97	124
1960 ³	(NA)	(NA)	23,456	89,391	17,358	32,705	56,632	183,244	60,595	98	111
1959 ³	(NA)	(NA)	25,962	93,106	19,397	35,938	61,781	197,104	(D)	109	119
1958.....	609	179	23,896	82,249	17,823	31,930	51,802	164,861	17,181	100	100

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

July 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

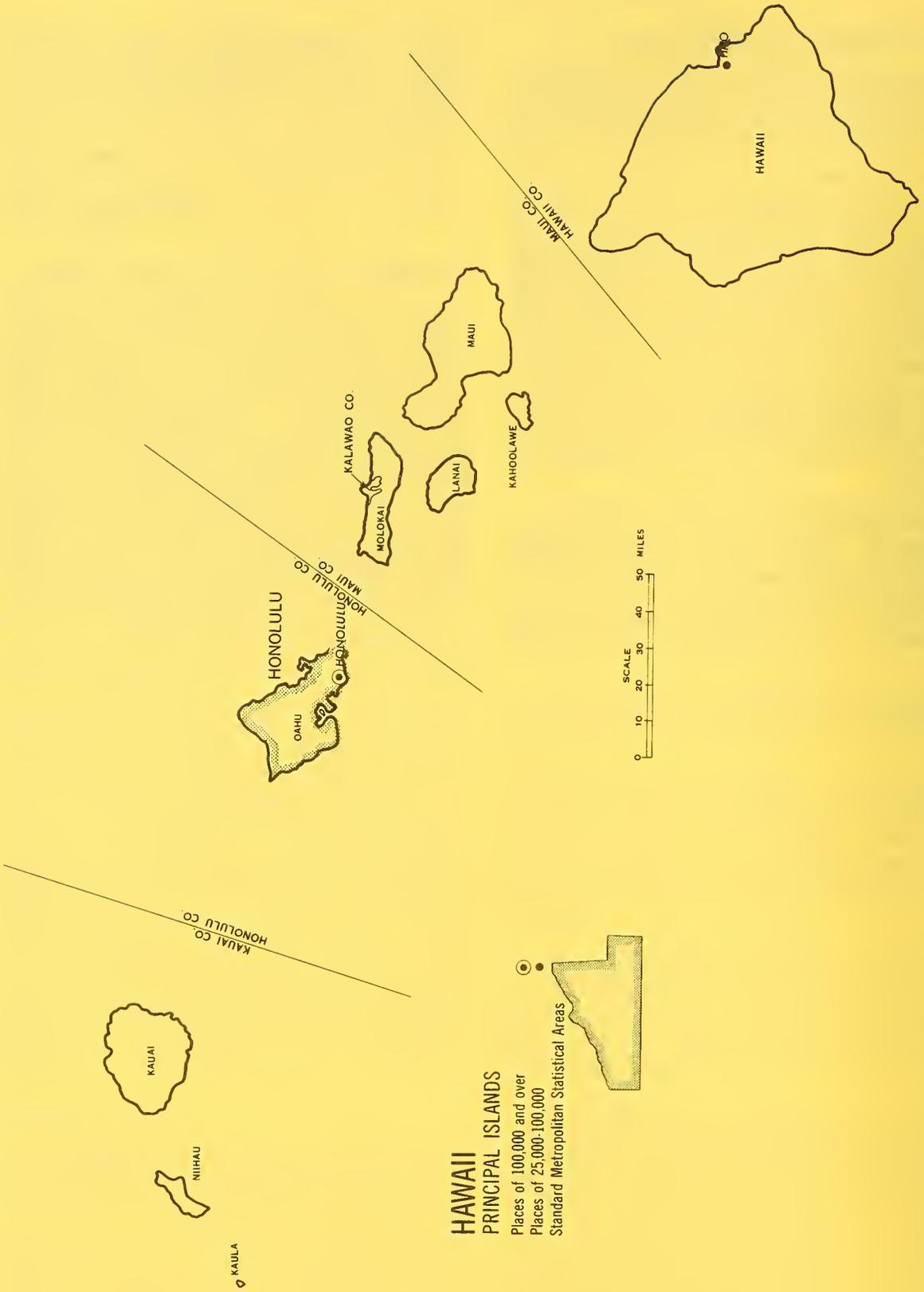
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



HAWAII
PRINCIPAL ISLANDS

Places of 100,000 and over
 Places of 25,000-100,000
 Standard Metropolitan Statistical Areas

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, ² number	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
HAWAII, TOTAL.....	657	194	24,960	106,808	18,716	33,114	67,097	254,454	16,132	23,896	164,861
STANDARD METROPOLITAN STATISTICAL AREAS											
Honolulu ⁴	512	146	17,690	77,662	13,104	22,953	47,095	168,563	9,409	15,990	107,049
COUNTIES ¹											
Hawaii.....	78	24	2,368	10,530	1,805	3,628	6,940	35,330	1,460	2,375	21,869
Honolulu.....	512	146	17,690	77,662	13,104	22,953	47,095	168,563	9,409	15,990	107,049
Kauai.....	23	11	1,770	6,611	1,375	2,565	4,733	18,644	1,313	2,137	15,298
Mauai.....	44	13	3,132	12,005	2,432	3,968	8,329	31,917	3,950	3,394	20,645

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The Honolulu Standard Metropolitan Statistical Area consists of Honolulu County, Hawaii.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	657	194	24,960	106,808	18,716	33,114	67,097	254,454	16,132	23,896	164,861
20	Food and kindred products.....	234	77	15,484	60,209	12,127	20,987	39,995	172,766	12,393	16,042	115,057
201	Meat products.....	17	7	423	1,626	309	597	1,045	3,882	(Z)	328	3,234
203	Canned and frozen foods.....	44	9	7,508	22,976	6,930	10,686	18,676	63,301	1,902	8,479	42,386
205	Bakery products.....	20	10	745	3,544	448	826	1,706	7,005	(Z)	826	6,261
208	Beverages.....	27	10	663	3,295	324	618	1,340	6,292	701	727	6,205
23	Apparel and related products:											
232	Men's and boys' furnishings..	14	8	382	1,096	345	621	899	1,716	(Z)	439	1,455
233	Women's and misses' outerwear	39	21	1,504	5,135	1,354	2,243	3,994	7,734	(Z)	1,117	4,715
24	Lumber and wood products.....	40	8	472	2,221	378	770	1,716	3,933	(Z)	434	2,285
27	Printing and publishing.....	69	19	1,744	9,250	984	1,840	5,025	16,725	(Z)	1,639	12,510
271	Newspapers.....	16	5	1,069	5,637	518	975	2,735	11,596	(Z)	1,112	9,015
275	Commercial printing.....	39	11	582	3,252	406	774	2,082	4,475	(Z)	478	3,312
32	Stone, clay and glass products.	28	11	728	4,237	523	999	2,499	12,204	587	295	3,332
327	Concrete and plaster products	11	8	460	2,689	325	609	1,582	7,036	(Z)	248	3,094
35	Machinery, except electrical...	26	4	400	2,228	332	672	1,730	3,320	(Z)	219	1,596
39	Miscellaneous manufacturing....	36	2	295	783	249	453	559	1,258	(Z)	162	854
--	Administrative and auxiliary ³ ..	-	-	708	5,447	-	-	-	-	-	881	-

- Represents zero. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

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Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

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Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

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Volume I, General Summary and Industry Statistics

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A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

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U.S. DEPARTMENT OF COMMERCE
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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S13

Area series

IDAHO

preliminary report

Value added by manufacturing in 1963 in the State of Idaho amounted to \$366 million, an increase of 23 percent from 1962 and 43 percent from 1958. Of this total, \$110 million was contributed by the food and kindred products industries and \$89 million by the lumber and wood products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

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	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	1,104	260	30,809	162,470	24,373	48,873	116,556	365,695	28,140	112	143
1962 ³	(NA)	(NA)	29,448	150,179	23,395	45,645	110,135	297,256	26,561	107	116
1961 ³	(NA)	(NA)	29,202	143,112	23,422	45,013	105,770	280,105	25,997	106	110
1960 ³	(NA)	(NA)	29,399	141,585	23,611	46,240	105,478	276,181	37,440	107	108
1959 ³	(NA)	(NA)	28,274	137,224	22,775	45,566	103,000	280,373	23,450	103	110
1958.....	1,059	244	27,582	128,146	22,149	42,992	96,509	255,775	19,196	100	100

(NA) Not available.

¹Revised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



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EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

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Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

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STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
IDAHO, TOTAL.....	1,104	260	30,809	162,470	24,373	48,873	116,556	365,695	28,140	27,582	255,775
STANDARD METROPOLITAN STATISTICAL AREAS											
Boise City ⁴	157	43	2,875	14,431	2,060	3,999	9,413	29,992	1,565	2,654	21,652
COUNTIES ¹											
Ada.....	157	43	2,875	14,431	2,060	3,999	9,413	29,992	1,565	2,654	21,652
Bannock.....	40	12	907	5,440	657	1,316	3,583	7,859	691	957	9,755
Bear Lake.....	11	2	351	2,111	263	556	1,493	3,056	(Z)	52	409
Benewah.....	46	6	419	1,534	368	686	1,337	2,580	(Z)	474	2,615
Bingham.....	26	5	927	4,651	722	1,442	2,888	13,403	1,852	597	4,490
Bonner.....	66	9	1,081	5,097	960	1,826	4,351	8,241	1,461	1,161	7,835
Bonneville.....	49	14	1,558	8,127	1,163	2,554	5,209	17,961	1,092	1,568	16,822
Boundary.....	33	6	417	1,938	378	740	1,754	3,523	(Z)	334	2,565
Canyon.....	71	20	3,109	13,732	2,522	5,022	10,128	29,964	975	3,021	27,039
Cassia.....	16	8	1,496	5,866	1,365	2,466	4,741	9,160	931	424	2,912
Clearwater.....	61	12	978	5,695	890	1,813	5,112	9,334	1,242	1,290	8,878
Franklin.....	6	3	268	876	241	430	704	3,473	(Z)	248	1,610
Idaho.....	55	14	1,101	5,675	988	1,866	5,043	8,748	1,380	1,025	6,614
Kootenai.....	65	15	1,603	8,166	1,405	2,728	6,996	12,801	1,283	1,525	8,111
Latah.....	47	8	820	3,999	728	1,360	3,445	6,980	1,394	880	4,885
Lewis.....	19	3	312	1,704	277	567	1,471	3,229	(Z)	168	1,318
Minidoka.....	11	2	292	1,618	267	606	1,417	4,987	(D)	231	3,614
Payette.....	18	5	393	1,516	303	564	1,095	2,794	(Z)	370	2,837
Twin Falls.....	59	16	1,196	5,892	888	1,895	4,133	17,498	1,190	1,017	9,877
Valley.....	16	3	352	1,795	319	657	1,534	2,589	(Z)	342	3,079

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^r Revised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Boise City Standard Metropolitan Statistical Area is coextensive with Ada County, Idaho.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	1,104	260	30,809	162,470	24,373	48,873	116,556	365,695	28,140	27,582	^r 255,775
20	Food and kindred products.....	224	82	9,863	44,455	7,859	15,809	31,200	109,906	7,922	^r 7,996	^r 78,073
201	Meat products.....	44	13	1,023	5,372	750	1,471	3,573	8,361	(Z)	833	8,389
202	Dairies.....	58	25	1,652	7,792	1,099	2,231	4,840	19,688	615	^r 1,708	^r 17,478
204	Grain mill products.....	30	6	495	2,397	361	731	1,499	6,544	571	486	5,356
205	Bakery products.....	21	6	453	2,146	246	491	1,039	4,216	(Z)	530	3,989
208	Beverages.....	18	5	288	1,481	122	230	475	3,370	(Z)	310	3,155
24	Lumber and wood products.....	489	110	10,624	53,704	9,661	19,194	47,845	89,334	11,780	10,337	66,990
241	Logging camps and contractors.	275	31	2,561	13,053	2,267	4,347	11,741	21,633	3,576	2,424	16,916
242	Sawmills and planing mills....	167	69	7,336	37,324	6,759	13,604	33,432	62,237	7,816	7,551	47,889
243	Millwork and related products.	28	6	463	2,179	407	807	1,820	3,618	(Z)	148	802
27	Printing and publishing.....	106	13	1,375	6,771	834	1,579	4,333	16,225	610	1,321	10,456
271	Newspapers.....	66	11	1,032	5,110	595	1,115	3,167	9,807	(Z)	983	8,114
28	Chemicals and allied products...	18	6	3,225	24,558	1,610	3,420	10,638	76,537	2,257	2,425	41,345
32	Stone, clay and glass products:											
327	Concrete and plaster products.	52	10	638	3,361	480	967	2,328	5,678	601	752	7,021
34	Fabricated metal products.....	31	5	447	2,528	341	694	1,765	6,218	(Z)	547	3,496
35	Machinery, except electrical....	65	8	556	3,112	443	921	2,350	5,048	(Z)	845	8,399
352	Farm machinery and equipment..	31	3	303	1,579	250	534	1,233	2,426	(Z)	237	1,686
37	Transportation equipment:											
379	Transportation equipment, n.e.c.....	13	7	584	2,425	501	997	1,795	5,032	(Z)	166	608
39	Miscellaneous manufacturing, including ordnance ³	27	4	386	1,612	326	653	1,146	2,623	(Z)	417	2,229
--	Administrative and auxiliary ⁴ ...	-	-	351	3,404	-	-	-	-	-	^r 232	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^r Revised.¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S14

Area series

ILLINOIS

preliminary report

Value added by manufacturing in 1963 in the State of Illinois amounted to \$14,557 million, an increase of 6 percent from 1962 and 25 percent from 1958. Of this total, \$2,182 million was contributed by the non-electrical machinery industries and \$2,043 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	18,135	6,694	1,210,977	7,555,218	856,874	1,719,739	4,663,642	14,557,060	775,365	102	125
1962 ³	(NA)	(NA)	1,194,014	7,199,961	837,494	1,697,798	4,440,588	13,676,249	768,513	100	117
1961 ³	(NA)	(NA)	1,170,462	6,804,178	815,627	1,626,516	4,137,369	12,730,249	702,278	98	109
1960 ³	(NA)	(NA)	1,209,028	6,846,452	847,665	1,705,305	4,233,626	12,624,176	718,810	102	108
1959 ³	(NA)	(NA)	1,221,990	6,799,641	873,128	1,757,349	4,264,566	12,871,577	665,778	103	110
1958.....	18,100	6,586	1,188,976	6,225,082	835,233	1,631,757	3,833,476	11,664,070	730,728	100	100

(NA) Not available. [†]Revised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

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ILLINOIS

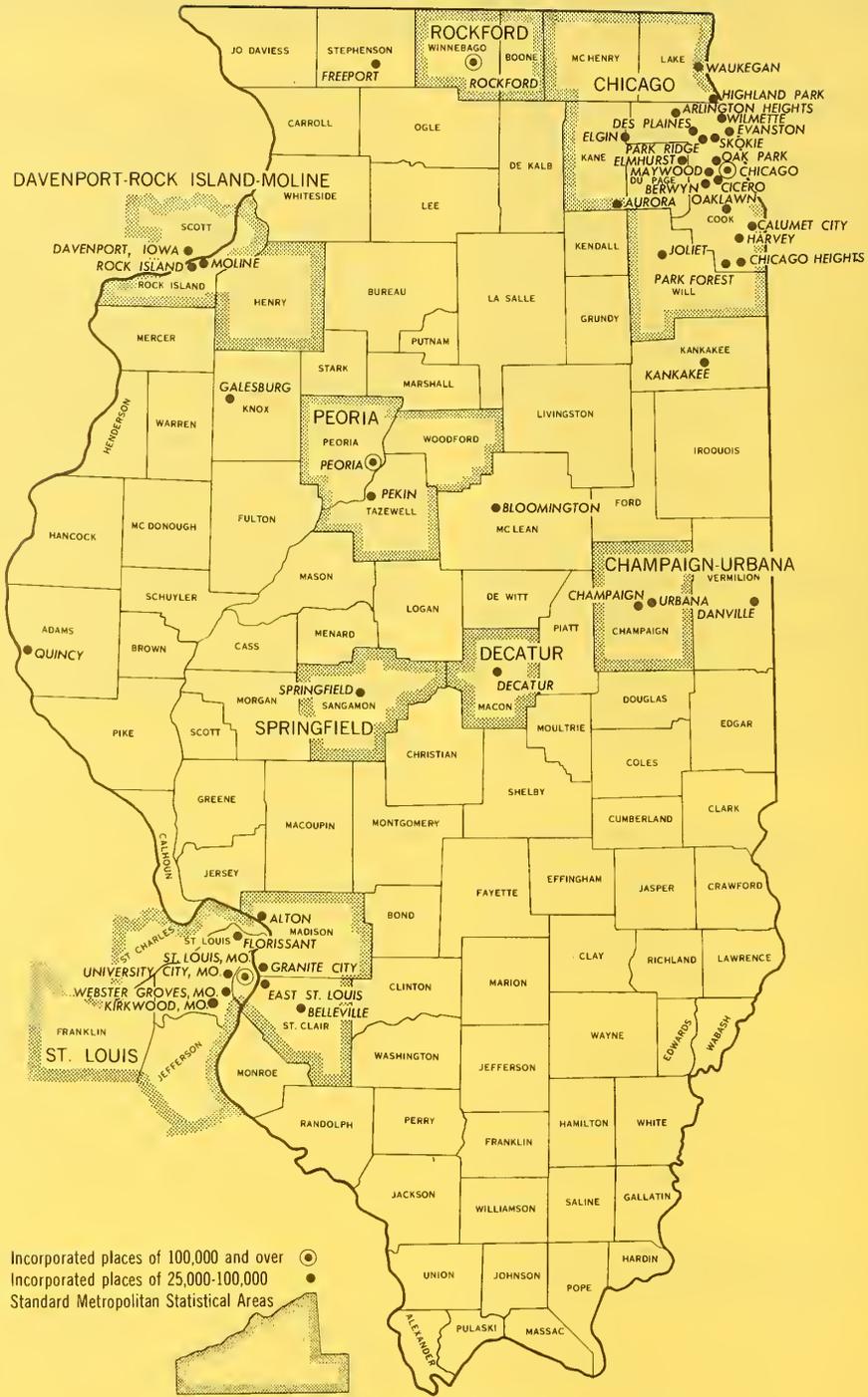


Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ILLINOIS, TOTAL.....	18,135	6,694	1,210,977	7,555,218	856,874	1,719,739	4,663,642	14,557,060	775,365	1,188,976	11,664,070
STANDARD METROPOLITAN STATISTICAL AREAS											
Chicago-Northwestern Indiana ⁴	13,972	3,206	958,410	6,192,557	670,229	1,345,664	3,787,312	11,839,597	719,069	^r 956,043	9,577,938
Portion in Indiana.....	418	182	97,142	713,213	76,234	150,186	530,841	1,614,425	230,675	^r 99,994	1,281,927
Portion in Illinois.....	13,554	5,024	861,268	5,479,344	593,995	1,195,478	3,256,471	10,225,172	488,394	^r 856,043	8,296,011
Champaign-Urbana ⁵	95	29	3,278	20,085	1,988	4,253	11,033	41,597	4,281	^r 2,689	24,443
Chicago ⁶	13,554	5,024	861,268	5,479,344	593,995	1,195,478	3,256,471	10,225,172	488,394	^r 856,043	8,296,011
Davenport-Rock Island-Moline ⁷	455	167	41,250	273,025	30,134	60,197	182,076	493,802	35,721	^r 39,235	404,876
Portion in Illinois.....	280	106	27,891	184,153	20,392	39,971	121,164	301,773	20,883	^r 27,172	282,092
Portion in Iowa.....	175	61	13,359	88,872	9,742	20,226	60,912	192,029	14,838	^r 12,063	122,784
Decatur ⁸	124	61	13,686	91,881	9,419	19,098	54,471	201,085	27,239	^r 14,057	143,926
Peoria ⁹	359	134	40,021	276,684	27,673	55,207	172,264	586,676	24,141	^r 37,636	492,193
Rockford ¹⁰	580	223	43,507	271,829	31,212	65,570	176,100	488,026	21,893	^r 40,756	362,831
St. Louis ¹¹	3,126	1,228	259,146	1,659,123	179,493	360,045	1,007,392	3,247,607	168,797	^r 262,504	2,416,983
Portion in Illinois.....	438	169	52,052	340,689	39,970	78,131	240,731	694,064	59,484	^r 54,215	556,949
Portion in Missouri.....	2,688	1,059	207,094	1,318,434	139,523	281,914	766,661	2,553,543	109,313	^r 208,289	1,860,034
Springfield ¹²	146	53	11,721	68,320	8,035	16,092	43,606	118,174	9,487	^r 11,195	99,623
COUNTIES ¹											
Adams.....	98	40	8,010	41,147	5,933	12,238	26,850	125,141	4,841	^r 7,309	92,824
Alexander.....	20	6	493	1,635	405	806	1,246	2,686	(Z)	^r 703	4,378
Bond.....	18	4	425	1,989	297	586	1,318	10,732	(Z)	^r 579	4,306
Boone.....	38	19	2,429	13,964	1,802	3,717	8,887	23,897	1,126	^r 2,333	16,640
Bureau.....	57	17	2,071	9,733	1,740	3,460	7,231	23,170	1,365	^r 1,604	11,676
Carroll.....	27	6	560	2,273	467	963	1,653	4,583	(Z)	^r 501	3,982
Cass.....	18	3	321	1,582	227	549	1,133	3,002	(Z)	^r 458	3,264
Champaign.....	95	29	3,278	20,085	1,988	4,253	11,033	41,597	4,281	^r 2,689	24,443
Christian.....	35	17	1,345	6,936	976	2,012	4,616	15,389	814	^r 1,519	13,074
Clay.....	13	5	821	2,731	732	1,398	2,326	6,540	(Z)	^r 541	3,670
Clinton.....	39	10	1,257	5,841	974	1,837	3,197	13,469	(Z)	^r 1,038	11,426
Coles.....	56	21	3,528	17,044	2,961	5,765	12,355	44,202	1,478	^r 3,354	29,314
Cook.....	11,810	4,376	749,396	4,809,936	514,752	1,035,661	2,843,170	8,942,182	398,313	^r 766,174	7,376,735
Crawford.....	27	9	1,945	10,583	1,591	3,178	7,864	29,922	1,358	^r 1,883	31,885
Cumberland.....	12	4	489	1,174	460	771	1,042	1,584	(Z)	^r 1,498	1,309
De Kalb.....	96	35	6,890	38,508	5,402	11,007	26,781	90,531	4,552	^r 5,708	53,056
De Witt.....	19	5	758	3,886	603	1,152	2,826	7,912	530	^r 370	2,510
Du Page.....	453	141	15,467	95,043	9,917	18,885	48,718	152,201	15,419	^r 8,248	71,688
Edgar.....	28	13	1,981	8,834	1,579	3,368	5,794	13,630	591	^r 1,378	6,382
Edwards.....	11	2	402	1,258	349	519	1,018	2,155	(Z)	^r 321	964
Effingham.....	31	10	1,733	7,619	1,394	2,687	5,669	10,048	(Z)	^r 1,486	8,009
Fayette.....	28	6	1,032	3,514	955	1,955	3,230	5,394	(Z)	^r 741	3,523
Franklin.....	37	11	1,045	2,960	786	1,334	2,139	5,378	(Z)	^r 658	3,272
Fulton.....	29	9	2,417	15,503	1,833	3,601	11,118	31,774	1,142	^r 2,233	20,973
Greene.....	22	4	560	2,169	472	810	1,499	3,537	(Z)	^r 325	2,298
Grundy.....	34	16	2,197	13,141	1,748	3,474	10,091	21,597	1,523	^r 2,091	22,172
Hamilton.....	13	3	425	1,097	396	703	1,008	1,916	(Z)	^r 353	1,133
Hancock.....	26	9	537	2,172	407	835	1,474	3,616	(Z)	^r 581	4,472
Henry.....	69	21	2,351	12,122	1,719	3,442	7,480	20,384	1,827	^r 3,274	27,869
Iroquois.....	34	10	1,952	7,753	1,663	3,076	5,895	16,675	967	^r 1,581	10,525
Jackson.....	34	9	1,822	7,241	1,541	2,992	5,358	11,863	546	^r 1,382	7,144
Jasper.....	13	4	716	2,385	658	1,242	1,931	4,253	(Z)	^r 358	1,429
Jefferson.....	32	13	1,430	5,786	1,224	2,202	4,603	10,055	(Z)	^r 1,650	9,564
Jo Daviess.....	31	6	417	1,970	334	738	1,476	3,580	(Z)	^r 595	4,954
Kane.....	464	198	33,163	193,730	23,752	48,377	119,978	349,373	29,807	^r 28,758	250,060
Kankakee.....	96	48	9,896	60,809	7,423	14,762	42,288	180,833	6,720	^r 9,367	130,709
Kendall.....	28	13	4,788	29,897	3,729	7,313	20,912	52,243	2,614	^r 30,071	30,071
Knox.....	62	24	5,462	30,045	4,228	7,945	22,302	63,679	4,181	^r 6,681	52,182
Lake.....	376	134	31,466	192,304	20,743	42,211	113,668	435,953	26,696	^r 27,044	319,820
La Salle.....	149	67	15,226	86,895	12,767	25,652	68,910	203,755	18,689	^r 17,035	189,195
Lee.....	43	17	1,806	9,220	1,277	2,618	6,117	28,754	1,520	^r 2,280	25,505
Livingston.....	19	19	2,491	11,471	1,860	3,577	7,397	20,898	1,243	^r 2,120	17,275
Logan.....	29	13	2,599	12,311	2,178	4,310	9,570	43,312	1,798	^r 1,868	25,173
McDonough.....	35	14	1,383	6,007	1,114	2,222	4,615	12,897	(Z)	^r 1,867	11,299
McHenry.....	214	78	12,547	65,300	9,902	19,920	41,782	114,894	4,744	^r 8,196	85,687
McLean.....	91	30	4,524	25,511	3,148	6,040	14,945	68,050	2,049	^r 4,420	45,947
Macon.....	124	61	13,686	91,881	9,419	19,098	54,471	201,085	27,239	^r 14,057	143,296
Macoupin.....	47	9	778	2,963	614	1,213	2,218	7,636	564	^r 694	4,990
Madison.....	190	78	33,471	226,888	26,691	52,090	165,534	457,617	48,441	^r 33,547	353,357
Marion.....	35	10	1,399	5,612	1,082	2,066	3,781	13,267	517	^r 2,083	13,738

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ²	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ --Continued											
Marshall.....	18	5	658	3,008	576	1,140	2,220	5,549	(Z)	594	2,763
Montgomery.....	45	13	1,970	8,828	1,647	3,308	6,649	16,229	(Z)	1,841	13,418
Morgan.....	36	11	1,948	9,848	1,443	2,665	6,292	27,225	1,516	1,520	16,856
Moultrie.....	13	5	689	2,694	581	1,030	2,044	7,574	(Z)	571	4,179
Ogle.....	57	26	4,745	27,635	3,910	8,247	21,414	53,793	1,959	3,853	33,811
Peoria.....	252	101	18,049	124,482	12,759	25,481	80,627	266,252	11,906	^r 15,158	182,985
Perry.....	31	15	1,572	6,640	1,199	2,427	4,521	11,502	519	1,507	7,992
Piatt.....	19	3	464	2,318	385	760	1,864	10,196	(Z)	497	10,061
Pike.....	18	4	637	1,983	584	972	1,724	4,264	(Z)	748	4,811
Pulaski.....	8	2	259	891	222	456	725	1,611	(Z)	220	579
Randolph.....	32	13	2,066	8,844	1,828	3,586	7,644	20,450	697	2,561	15,792
Richland.....	17	8	1,256	4,568	1,056	1,973	3,378	10,703	623	554	2,040
Rock Island.....	211	85	25,540	172,031	18,673	36,529	113,684	280,526	19,056	^r 23,898	254,223
St. Clair.....	248	91	18,581	113,801	13,279	26,041	75,197	236,447	11,043	20,668	203,592
Saline.....	20	6	380	1,505	253	456	902	2,659	(Z)	395	2,416
Sangamon.....	146	53	11,721	68,320	8,035	16,092	43,606	118,174	9,487	11,195	99,623
Shelby.....	15	6	909	4,807	728	1,392	3,364	5,862	(Z)	609	3,356
Stark.....	9	5	274	1,193	182	384	717	2,419	(Z)	215	1,378
Stephenson.....	73	23	7,667	37,090	5,298	10,549	22,203	77,083	11,743	6,156	52,502
Tazewell.....	82	27	21,492	149,726	14,565	29,030	90,018	315,117	11,990	21,893	304,574
Union.....	19	8	613	2,236	531	1,067	1,889	6,153	(Z)	648	3,561
Vermillion.....	126	72	12,124	68,602	9,597	19,375	49,267	151,171	11,581	10,134	94,100
Wabash.....	13	5	630	3,318	474	927	2,405	8,356	(Z)	870	8,530
Warren.....	24	4	738	2,693	614	1,246	2,021	4,170	(Z)	767	3,626
White.....	16	5	500	1,536	458	841	1,354	2,700	(Z)	432	1,879
Whiteside.....	63	28	7,739	55,338	6,046	12,391	40,125	110,514	9,282	6,691	87,125
Will.....	237	97	19,229	123,031	14,929	30,424	89,155	230,569	13,415	17,623	192,021
Williamson.....	52	14	3,995	18,022	3,074	6,171	12,862	31,481	3,175	^r 3,927	20,983
Winnebago.....	542	204	41,078	257,865	29,410	61,853	167,213	464,129	20,767	^r 38,423	346,191
Woodford.....	25	6	480	2,476	349	696	1,619	5,307	(Z)	585	4,634

(Z) Less than \$500 thousand. ^rRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Chicago, Ill.—Northwestern Indiana Standard Consolidated Area consists of Chicago, Ill., and Cary-Hammond-East Chicago, Ind., Standard Metropolitan Statistical Areas.⁵The Champaign-Urbana Standard Metropolitan Statistical Area is coextensive with Champaign County, Ill.⁶The Chicago Standard Metropolitan Statistical Area consists of Cook, Du Page, Kane, Lake, McHenry, and Will Counties, Ill.⁷The Davenport-Rock Island-Moline Standard Metropolitan Statistical Area consists of Scott County, Iowa, and Henry and Rock Island Counties, Ill.⁸The Decatur Standard Metropolitan Statistical Area is coextensive with Macon County, Ill.⁹The Peoria Standard Metropolitan Statistical Area consists of Peoria, Tazewell, and Woodford Counties, Ill.¹⁰The Rockford Standard Metropolitan Statistical Area consists of Boone and Winnebago Counties, Ill.¹¹The St. Louis Standard Metropolitan Statistical Area consists of St. Louis City, Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo., and Madison and St. Clair Counties, Ill.¹²The Springfield Standard Metropolitan Statistical Area is coextensive with Sangamon County, Ill.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	18,135	6,694	1,210,977	7,555,218	856,874	1,719,739	4,663,642	14,557,060	775,365	1,188,976	11,664,070
20	Food and kindred products.....	1,892	803	115,439	696,121	79,687	165,025	434,265	2,043,377	117,246	128,982	1,653,037
201	Meat products.....	295	108	18,609	115,107	14,470	29,415	84,456	205,577	7,403	26,370	226,185
202	Dairies.....	311	156	11,206	71,460	5,499	11,991	33,099	172,456	7,826	14,741	148,608
203	Canned and frozen foods.....	171	74	10,137	54,669	8,021	16,965	37,524	168,454	33,579	9,444	118,586
204	Grain mill products.....	145	65	14,498	94,827	10,379	22,181	64,991	373,372	21,319	14,739	275,701
207	Candy and related products....	115	63	15,258	79,562	12,144	24,601	53,842	229,417	8,536	15,724	186,470
208	Beverages.....	261	98	12,386	82,704	6,929	14,144	42,058	303,633	11,289	11,464	187,915
209	Miscellaneous foods and kindred products.....	282	111	13,597	84,974	9,123	18,963	49,995	326,066	15,363	14,368	276,641
22	Textile mill products.....	87	42	6,949	33,532	5,544	11,733	23,595	55,931	2,705	8,126	60,082
225	Knitting mills.....	13	9	1,181	3,940	1,068	1,968	3,308	5,859	(2)	1,455	8,086
229	Miscellaneous textile goods...	38	20	2,969	16,506	2,194	4,640	10,994	31,198	2,114	3,434	33,032
23	Apparel and related products...	871	355	40,203	152,121	34,244	61,548	110,842	264,651	3,292	44,345	246,407
232	Men's and boys' furnishings...	85	44	4,367	13,202	3,991	7,111	10,752	23,757	(2)	4,625	21,834
233	Women's and misses' outerwear, women's and children's underwear.....	209	129	11,759	40,082	10,079	17,291	29,149	64,993	907	13,655	66,333
234	Millinery, hats and caps.....	26	24	4,078	17,775	3,355	6,294	10,893	38,644	(2)	4,550	35,719
235	Miscellaneous apparel.....	47	22	1,350	4,593	1,190	2,084	3,733	7,974	(2)	1,889	10,836
238	Fabricated textiles, n.e.c.....	52	22	2,628	8,134	2,353	4,144	6,251	15,488	(2)	2,971	13,790
239	Lumber and wood products.....	649	130	11,105	53,551	8,936	17,788	37,554	86,711	3,905	11,836	77,460
243	Millwork and related products...	259	50	4,194	23,659	3,146	6,505	15,485	38,620	1,354	4,735	34,508
249	Miscellaneous wood products...	132	42	4,074	19,904	3,278	6,580	13,645	32,747	1,206	3,635	25,653
25	Furniture and fixtures.....	585	218	23,539	122,042	18,438	37,197	85,655	208,337	10,540	24,705	188,082
251	Household furniture.....	312	129	13,771	65,637	11,239	22,399	47,668	108,523	3,566	16,870	118,395
254	Partitions and fixtures.....	153	54	5,263	31,715	3,717	7,801	20,938	54,910	2,845	3,758	36,431
259	Furniture and fixtures, n.e.c.....	68	13	1,854	9,391	1,401	2,733	6,086	15,017	(2)	1,826	12,411
26	Paper and allied products.....	457	289	36,735	213,502	28,427	58,371	143,324	380,378	28,169	31,922	286,977
263	Paperboard mills.....	16	15	2,207	14,707	1,767	3,706	10,814	29,196	2,324	2,447	29,367
264	Paper and paperboard products...	196	103	13,332	77,139	10,133	20,547	49,248	148,228	9,910	11,555	101,019
265	Paperboard containers and boxes.....	227	156	19,989	113,576	15,497	31,940	76,850	187,782	15,353	16,478	140,178
27	Printing and publishing.....	2,897	697	95,658	647,216	61,524	120,173	392,231	1,193,866	53,941	92,878	918,520
271	Newspapers.....	458	108	19,673	121,354	9,970	17,754	63,280	206,361	10,519	19,729	173,787
272	Periodicals.....	260	59	6,012	42,300	1,187	2,123	6,324	95,355	1,671	5,567	70,784
273	Books.....	138	51	9,045	58,668	3,100	6,272	18,409	214,748	6,292	7,037	136,510
274	Miscellaneous publishing.....	99	26	4,036	30,794	2,010	3,910	14,971	68,655	1,356	3,788	45,712
275	Commercial printing.....	1,492	298	39,902	283,500	31,596	63,149	209,242	432,104	26,379	39,458	345,584
276	Manifold business forms.....	41	23	3,243	22,105	2,427	5,143	14,114	44,775	3,298	2,196	26,107
277	Greeting card manufacturing...	27	13	1,916	7,944	1,465	2,899	5,738	13,412	613	2,647	14,517
278	Bookbinding and related work...	142	59	6,170	32,407	5,293	10,318	23,988	52,474	2,246	6,204	42,951
279	Printing trades services.....	240	60	5,661	48,144	4,476	8,605	37,165	65,982	1,567	6,252	62,568
28	Chemicals and allied products...	927	320	47,519	308,629	29,024	59,037	160,064	1,215,130	77,297	46,176	847,831
281	Basic chemicals.....	93	47	9,900	71,782	6,476	13,174	42,981	238,512	25,694	9,077	141,328
282	Fibers, plastics, rubbers.....	45	12	1,271	8,627	802	1,657	4,494	32,575	4,743	1,607	47,753
283	Drugs.....	106	40	8,778	55,489	4,231	8,379	21,349	231,516	6,165	9,047	160,092
284	Cleaning and toilet goods.....	225	62	9,724	56,976	6,615	13,281	32,436	407,143	19,886	9,267	298,307
285	Paints and allied products....	174	77	8,747	57,506	5,149	10,783	28,206	151,441	4,539	8,548	130,982
289	Miscellaneous chemical products.....	206	58	6,867	45,784	4,292	8,837	23,278	120,640	5,927	6,759	85,327
29	Petroleum and coal products....	98	50	11,356	83,516	8,081	15,601	52,419	248,537	13,969	14,140	208,297
291	Petroleum refining.....	19	13	7,070	56,191	5,059	9,195	35,393	180,822	11,416	9,377	157,209
295	Paving and roofing materials...	43	22	3,003	18,386	2,295	4,864	12,949	39,328	1,373	3,719	34,416
299	Petroleum and coal products, n.e.c.....	36	15	1,283	8,939	727	1,542	4,077	28,387	1,190	1,044	16,672
30	Rubber and plastics products, n.e.c.....	464	222	28,700	158,534	22,583	45,419	106,502	305,547	49,828	22,143	185,240
307	Plastics products, n.e.c.....	375	177	19,971	110,014	15,872	32,115	74,676	210,404	21,405	16,311	140,440
31	Leather and leather products:											
311	Leather tanning and finishing...	23	15	2,283	12,983	2,062	4,286	10,615	21,829	578	2,303	18,274
314	Footwear, except rubber.....	38	31	10,902	38,690	10,027	17,883	32,675	78,820	(2)	13,082	74,797
315	Leather gloves.....	7	5	584	1,763	538	1,119	1,491	1,868	(2)	579	2,830
316	Luggage.....	45	10	1,017	3,897	870	1,707	2,656	6,091	(2)	1,006	5,984
317	Purses and small leather goods	24	9	761	2,862	664	1,222	2,073	4,300	(2)	814	4,637
319	Leather goods, n.e.c.....	28	6	565	2,202	480	1,077	1,560	3,818	(2)	359	2,136

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
32	Stone, clay and glass products..	883	266	38,130	224,998	30,906	63,312	169,778	490,419	23,279	37,724	418,759
322	Pressed and blown glassware...	18	13	9,310	51,739	8,397	17,144	44,944	103,702	3,503	8,270	84,613
323	Products of purchased glass...	59	18	2,386	15,078	1,975	3,944	11,730	39,937	883	3,294	47,983
325	Structural clay products.....	41	34	2,352	12,431	1,979	3,947	9,533	18,459	940	2,803	21,388
326	Pottery and related products..	27	16	3,155	15,222	2,679	5,322	12,060	21,874	754	3,141	20,317
327	Concrete and plaster products..	515	93	6,890	43,504	5,007	10,604	29,267	101,132	7,033	6,335	78,890
328	Cut stone and stone products..	39	9	4,448	2,782	326	679	1,878	3,947	(2)	5,020	6,334
329	Nonmetallic mineral products..	175	76	11,529	69,145	8,719	17,955	47,281	154,039	7,434	10,492	117,111
33	Primary metal industries.....	572	334	96,981	684,759	79,183	157,386	516,176	1,158,132	93,192	89,432	906,854
331	Steel rolling and finishing...	70	51	47,913	363,778	39,169	76,955	277,408	618,537	49,716	44,450	512,024
332	Iron and steel foundries.....	110	87	18,387	117,446	15,485	30,058	89,857	178,638	12,184	16,357	110,239
334	Secondary nonferrous metals...	44	24	2,518	16,660	4,018	10,464	34,536	3,120	3,489	35,992	35,992
335	Nonferrous rolling and drawing	58	39	13,584	91,209	10,455	21,724	65,308	171,658	21,102	10,626	128,439
339	Primary metal industries, n.e.c.....	93	50	6,312	45,669	5,141	10,167	34,193	77,908	3,114	5,932	55,902
34	Fabricated metal products.....	2,416	964	123,177	753,208	97,569	200,120	534,484	1,369,080	64,426	127,744	1,201,275
341	Metal cans.....	21	21	10,053	71,009	8,657	18,026	58,340	138,199	10,342	11,233	128,821
342	Cutlery, hand tools, hardware,	190	87	15,441	87,331	12,321	25,019	62,824	172,582	5,516	15,117	146,839
343	Plumbing and heating, except electric.....	82	43	5,957	35,649	4,365	8,693	22,378	70,182	2,059	7,914	81,006
344	Structural metal products.....	624	226	20,248	118,492	15,266	30,810	80,507	215,712	9,940	21,640	211,990
345	Screw machine products.....	344	138	18,453	120,189	14,499	32,742	86,511	212,393	10,813	16,052	145,000
346	Metal stampings.....	334	150	16,571	100,423	13,612	27,870	72,892	174,746	6,269	17,284	154,341
347	Metal services, n.e.c.....	408	122	8,511	45,922	7,065	13,841	33,589	77,705	3,112	7,769	57,266
348	Fabricated wire products, n.e.c.....	166	68	8,817	50,256	7,350	14,239	36,187	71,359	3,603	7,456	57,858
349	Fabricated metal products, n.e.c.....	247	109	19,126	123,937	14,434	28,880	81,256	236,202	12,772	23,279	218,154
35	Machinery, except electrical...	2,701	826	177,302	1,194,760	128,179	264,081	794,759	2,181,630	103,099	164,447	1,723,164
352	Farm machinery and equipment...	111	63	23,567	156,967	17,932	35,366	111,894	288,550	20,754	26,730	285,018
353	Construction and like equipment.....	172	80	52,696	358,749	39,298	79,635	249,456	685,794	31,466	45,196	550,215
354	Metalworking machinery.....	849	211	29,754	214,009	22,171	48,572	147,574	349,737	13,020	26,998	238,267
355	Special industry machinery...	265	107	14,479	100,686	9,844	20,544	62,093	173,573	6,316	14,257	130,422
356	General industrial machinery...	372	134	20,104	133,986	13,998	29,226	83,496	267,110	8,490	19,140	202,301
357	Office machines, n.e.c.....	54	35	7,738	45,808	4,860	9,644	25,910	107,176	4,633	6,770	73,300
358	Service industry machines.....	193	81	9,703	60,260	6,333	13,140	33,654	112,073	4,252	8,144	82,684
36	Electrical machinery.....	928	526	167,132	927,248	124,429	241,775	590,446	1,781,288	73,328	162,255	1,455,423
361	Electric distribution products	107	57	15,317	86,847	11,449	22,763	55,667	163,000	6,261	14,899	131,520
362	Electric industrial apparatus...	125	67	10,557	56,354	7,826	15,739	35,733	118,059	4,388	10,343	92,844
363	Household appliances.....	75	43	23,496	142,962	18,750	35,100	101,997	283,018	9,181	23,518	229,224
364	Lighting and wiring devices...	206	111	18,232	97,503	13,616	26,729	60,741	196,761	6,782	17,281	154,955
365	Radio and TV receiving equipment.....	71	45	29,953	147,947	25,521	49,213	108,547	300,139	13,045	21,509	207,654
366	Communication equipment.....	80	44	42,319	269,770	26,110	50,866	146,366	509,948	19,432	52,775	482,668
367	Electronic components.....	183	120	20,643	91,979	16,302	31,604	59,564	136,180	11,636	17,321	112,928
369	Electrical products, n.e.c.....	81	39	6,615	33,886	4,855	9,761	21,831	74,183	2,353	4,609	43,560
37	Transportation equipment.....	276	124	40,614	283,126	31,517	66,182	201,507	595,239	24,895	44,673	535,606
371	Motor vehicles and equipment..	175	84	22,174	156,388	18,319	40,366	119,877	367,443	14,779	28,217	248,217
372	Aircraft and parts.....	24	17	6,282	43,924	4,058	7,619	25,032	63,533	3,396	11,041	171,816
374	Railroad equipment.....	24	13	10,395	72,251	7,740	15,322	49,028	146,884	5,041	9,672	101,072
38	Instruments and related products	375	146	36,963	222,639	25,369	50,456	129,545	474,959	16,378	30,962	302,905
381	Scientific instruments.....	57	23	3,013	17,666	2,018	4,039	10,054	36,146	1,348	2,229	22,212
382	Mechanical measuring devices..	65	29	12,785	75,782	8,699	17,700	45,154	164,963	4,545	7,778	88,973
383	Optical instruments and lenses	19	8	526	3,189	397	824	2,219	4,606	(2)	721	5,402
384	Medical instruments and supplies.....	106	37	5,883	38,364	3,978	8,052	21,331	103,475	5,132	5,706	76,428
385	Ophthalmic goods.....	32	5	625	3,452	456	855	2,237	5,577	(2)	1,800	1,685
386	Photographic equipment.....	74	31	7,798	50,319	4,820	9,276	25,593	100,208	2,809	7,903	76,314
387	Watches, clocks, and watchcases.....	22	13	6,333	33,867	5,001	9,710	22,957	59,984	2,070	6,445	31,891
39	Miscellaneous manufacturing, including ordnance ³	875	303	36,468	191,699	27,816	55,761	125,160	364,692	14,050	35,671	316,356
391	Jewelry and silverware.....	53	11	996	5,476	743	1,525	3,517	10,649	(2)	1,024	7,913
393	Musical instruments and parts...	45	23	4,951	27,173	3,690	7,814	17,419	56,536	1,832	5,252	48,515
394	Toys and sporting goods.....	170	68	7,801	36,894	6,407	12,327	26,464	74,672	4,095	6,796	66,996
395	Pens, pencils and office supplies.....	77	36	2,369	12,821	1,731	3,544	7,723	24,778	762	2,025	18,954
396	Costume jewelry and notions...	53	12	1,307	5,504	985	1,768	3,177	11,211	(2)	1,926	12,515
399	Miscellaneous manufactures ³ ...	467	145	13,778	75,068	10,901	22,274	49,882	126,438	3,838	18,648	161,463
190	Administrative and auxiliary ⁴ ...	-	-	59,925	537,239	-	-	-	-	-	51,131	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^RRevised.¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) to avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishments at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ^a	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CHICAGO-NORTHWESTERN INDIANA SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	13,972	5,206	958,410	6,192,557	670,229	1,345,664	3,787,312	11,839,597	719,069	795,043	9,577,938
20	Food and kindred products.....	1,111	507	78,646	485,245	53,789	111,191	295,379	1,424,900	80,910	90,879	1,191,691
201	Meat products.....	173	76	11,310	71,484	8,898	17,917	51,087	147,015	3,307	18,259	166,706
202	Dairies.....	138	83	6,624	47,619	2,921	6,048	20,109	109,968	4,525	8,293	93,584
203	Canned and frozen foods.....	131	50	6,971	42,086	5,170	10,825	27,382	132,006	30,089	7,115	96,930
204	Grain mill products.....	53	23	6,331	41,161	4,898	10,367	31,551	177,347	7,956	7,025	140,650
205	Bakery products.....	191	87	17,103	98,392	11,555	23,975	60,898	237,017	10,045	19,044	211,299
207	Candy and related products...	99	54	13,118	70,480	10,518	21,576	48,291	197,566	7,581	13,845	166,404
208	Beverages.....	140	59	7,397	51,374	3,486	7,229	20,285	170,537	(D)	1,634	19,003
209	Miscellaneous foods and kindred products.....	183	73	9,624	61,438	6,230	13,015	35,037	250,550	9,251	10,353	214,756
22	Textile mill products.....	68	29	5,200	26,719	4,007	8,620	18,584	44,887	2,282	6,086	48,918
225	Knitting mills.....	9	5	670	2,449	607	1,102	2,092	4,156	(Z)	743	3,689
229	Miscellaneous textile goods...	33	17	2,840	15,898	2,092	4,445	10,536	30,197	2,078	3,260	31,801
23	Apparel and related products...	751	268	29,262	120,216	24,325	44,051	84,437	210,867	2,609	33,096	206,308
231	Men's and boys' suits and coats.....	46	16	7,200	33,279	5,828	10,691	24,601	51,577	(Z)	8,096	43,050
232	Men's and boys' furnishings...	67	28	2,654	9,126	2,355	4,255	6,936	15,802	(Z)	2,955	17,195
233	Women's and misses' outerwear.	164	92	7,323	28,126	6,397	11,113	21,020	45,872	574	8,822	50,595
234	Women's and children's underwear.....	17	15	2,995	14,804	2,365	4,404	8,273	33,401	(Z)	3,530	31,524
235	Millinery, hats and caps.....	41	16	1,093	3,773	705	1,153	1,947	6,864	(Z)	1,595	9,859
236	Children's outerwear.....	13	2	269	880	226	419	690	1,401	(Z)	381	2,100
238	Miscellaneous apparel.....	45	16	1,403	4,711	1,185	2,101	3,283	9,727	(Z)	1,488	8,622
239	Fabricated textiles, n.e.c.....	310	82	6,199	24,819	5,154	9,633	17,130	44,621	1,046	6,094	41,551
25	Furniture and fixtures.....	493	182	21,483	113,236	16,502	33,470	77,887	194,305	9,797	20,736	161,551
251	Household furniture.....	263	110	12,795	62,671	10,147	20,469	44,050	106,326	3,386	13,855	100,438
254	Partitions and fixtures.....	131	41	4,418	27,010	3,059	6,397	17,562	47,118	2,303	3,112	30,684
259	Furniture and fixtures, n.e.c.	58	12	1,762	9,015	1,327	2,580	5,787	14,390	(Z)	1,672	11,377
26	Paper and allied products.....	388	239	29,612	173,355	22,662	47,198	114,170	312,448	23,375	25,180	221,970
264	Paper and paperboard products.	179	95	11,698	69,443	8,746	18,210	43,955	134,597	8,726	10,350	92,143
265	Paperboard containers and boxes.....	188	127	16,602	95,271	12,818	26,633	63,302	159,193	14,041	13,503	113,993
266	Building paper and board mills	10	7	413	2,790	339	722	2,402	4,872	(Z)	490	5,409
27	Printing and publishing.....	2,221	572	81,324	568,177	52,235	101,630	342,607	1,054,521	44,149	780,229	821,133
271	Newspapers.....	157	48	13,779	93,276	7,279	12,503	50,013	158,189	6,308	14,033	133,668
272	Periodicals.....	237	58	5,674	40,551	1,002	1,805	5,436	92,350	1,568	5,369	68,634
273	Books.....	121	45	8,952	57,055	3,155	6,282	17,997	211,670	6,152	7,252	137,560
274	Miscellaneous publishing.....	86	24	3,905	30,274	1,925	3,784	14,688	67,935	1,323	3,692	45,343
275	Commercial printing.....	1,234	261	34,340	250,250	27,042	54,155	183,172	378,285	23,518	34,021	304,556
276	Manifold business forms.....	32	15	2,132	15,257	1,554	3,279	9,532	27,600	1,523	1,860	20,521
277	Creting card manufacturing.....	25	12	1,691	6,911	1,296	2,555	4,948	10,951	(Z)	2,426	13,128
278	Bookbinding and related work.	129	55	5,697	30,314	4,901	9,516	22,586	48,729	2,130	5,868	41,010
279	Printing trades services.....	200	54	5,154	44,289	4,081	7,751	34,235	58,812	1,370	5,708	56,713
28	Chemicals and allied products...	775	259	37,858	251,678	22,896	46,383	127,978	1,023,319	48,750	36,614	731,419
281	Basic chemicals.....	74	37	5,917	44,807	3,886	7,956	26,264	146,427	13,893	6,153	143,181
283	Drugs.....	83	25	6,804	43,107	3,159	6,222	15,846	173,774	5,230	6,795	128,569
284	Cleaning and toilet goods.....	202	58	9,676	59,469	6,624	13,294	34,570	402,775	18,921	9,617	256,845
285	Paints and allied products.....	154	68	7,651	51,279	4,558	9,494	25,323	133,736	4,368	7,310	116,007
287	Agricultural chemicals.....	25	9	714	3,983	440	858	2,150	9,255	(Z)	702	8,735
289	Miscellaneous chemical products.....	189	51	5,499	37,950	3,163	6,445	17,310	101,069	4,319	5,394	71,541
29	Petroleum and coal products.....	83	45	11,785	88,921	8,655	17,098	59,980	232,042	12,654	15,151	190,098
291	Petroleum refining.....	13	12	7,817	62,873	5,914	11,241	44,259	167,668	10,083	10,682	142,699
295	Paving and roofing materials.	41	20	2,847	17,930	2,120	4,568	12,156	37,338	1,447	3,489	31,662
299	Petroleum and coal products, n.e.c.....	29	13	1,121	8,118	621	1,289	3,565	27,036	1,124	980	15,737
30	Rubber and plastics products, n.e.c.....	411	195	24,157	135,115	18,926	38,448	90,372	260,504	19,252	19,568	154,108
306	Rubber products, n.e.c.....	64	32	5,934	34,029	4,470	9,053	21,845	69,911	3,812	3,614	29,680
307	Plastics products, n.e.c.....	343	163	18,199	100,903	14,455	29,341	68,488	189,792	15,420	15,954	124,428
31	Leather and leather products:											
311	Leather tanning and finishing.	21	13	1,972	11,573	1,778	3,799	9,385	20,331	(Z)	1,990	16,360
314	Footwear, except rubber.....	10	5	2,989	14,711	2,576	4,808	10,660	25,789	(Z)	3,548	21,294
316	Luggage.....	44	10	1,016	3,894	869	1,705	2,653	6,077	(Z)	1,006	5,984
317	Purses and small leather goods	24	9	761	2,862	664	1,222	2,073	4,300	(Z)	816	4,646
319	Leather goods, n.e.c.....	25	6	532	2,130	452	1,010	1,500	3,672	(Z)	349	2,037
32	Stone, clay and glass products:											
322	Pressed and blown glassware..	11	6	1,834	9,954	1,624	3,454	8,270	16,573	1,011	1,223	9,774
323	Products of purchased glass....	54	16	1,462	7,644	1,217	2,373	5,695	10,847	538	1,784	14,234
325	Structural clay products.....	11	9	755	4,195	588	1,146	2,905	5,907	(Z)	898	6,868
326	Pottery and related products...	18	7	883	4,270	734	1,616	3,084	5,457	(Z)	993	6,490
328	Cut stone and stone products..	36	8	428	2,715	304	633	1,797	3,807	(Z)	594	4,791
329	Nonmetallic mineral products..	169	76	11,687	70,292	8,944	18,250	48,461	154,633	8,200	10,973	124,492

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CHICAGO-NORTHWESTERN INDIANA SMSA—Continued												
33	Primary metal industries.....	438	254	121,936	895,811	98,998	195,773	682,633	1,738,864	247,463	117,869	1,395,424
331	Steel rolling and finishing....	67	51	86,772	658,847	70,394	137,803	504,764	1,343,599	228,066	84,546	1,089,167
332	Iron and steel foundries....	60	51	11,360	72,792	9,549	18,630	57,244	112,645	4,838	11,195	93,327
334	Secondary nonferrous metals...	44	24	2,780	19,224	2,020	4,352	11,779	38,306	3,443	2,820	25,175
335	Nonferrous rolling and drawing	43	24	7,490	53,865	5,749	12,166	38,912	98,009	4,869	6,755	82,904
339	Primary metal industries, n.e.c.....	76	37	6,972	50,295	5,742	11,419	38,769	84,164	3,218	6,544	59,731
34	Fabricated metal products.....	2,033	799	101,137	634,540	79,736	162,693	450,947	1,124,857	52,096	106,234	997,134
341	Metal cans.....	15	15	8,790	62,870	7,613	15,917	52,276	115,973	9,331	9,916	114,209
342	Outletry, hand tools, hardware...	151	64	6,924	39,318	5,428	10,913	26,908	80,987	2,152	6,791	66,400
343	Plumbing and heating, except electric.....	52	25	2,341	15,528	1,596	3,249	8,933	26,006	1,041	3,683	38,103
344	Structural metal products....	490	178	18,757	113,369	14,147	27,914	77,868	188,033	8,155	20,645	197,176
345	Screw machine products.....	302	119	14,256	93,184	11,097	24,996	66,638	164,802	8,253	13,139	116,359
346	Metal stampings.....	301	136	16,573	106,264	13,726	28,126	78,805	186,568	5,918	16,736	156,867
347	Metal services, n.e.c.....	366	115	7,839	42,331	6,512	12,698	31,008	71,634	2,504	7,224	54,096
348	Fabricated wire products, n.e.c.....	142	58	7,636	44,334	6,414	12,358	32,063	62,009	2,574	6,703	51,621
349	Fabricated metal products, n.e.c.....	214	89	18,021	117,342	13,203	26,522	76,448	228,845	12,168	21,397	202,303
35	Machinery, except electrical...	2,100	622	102,757	699,664	72,854	151,712	453,641	1,210,499	51,543	98,125	946,980
351	Engines and turbines.....	5	4	6,206	43,621	4,099	7,903	27,689	65,482	5,763	6,867	66,636
352	Farm machinery and equipment...	39	25	3,537	22,129	2,490	5,159	14,309	39,967	2,721	6,049	47,762
353	Construction and like equipment.....	118	53	22,513	158,790	16,297	33,537	107,667	242,568	14,609	21,233	204,442
354	Metalworking machinery.....	708	161	21,520	154,426	16,465	35,811	109,555	259,991	9,795	19,001	173,718
355	Special industry machinery...	227	85	10,830	77,289	7,342	15,309	46,948	129,694	4,753	11,367	107,746
356	General industrial machinery...	293	111	15,035	101,988	10,475	21,699	62,866	194,102	6,242	13,647	144,655
357	Office machines, n.e.c.....	47	30	7,240	43,002	4,492	8,870	24,200	99,381	4,434	6,115	66,208
358	Service industry machines....	156	64	7,263	45,581	4,693	9,648	34,377	84,661	2,368	6,630	69,330
359	Miscellaneous machinery.....	507	89	8,613	52,838	6,501	13,776	35,970	94,953	4,838	7,216	66,483
36	Electrical machinery.....	806	443	133,525	753,468	98,176	190,645	472,616	1,405,640	58,806	133,308	1,193,939
361	Electric distribution products	75	49	10,809	59,584	8,149	16,341	38,690	111,952	4,700	10,875	91,021
362	Electric industrial apparatus...	104	50	6,252	31,702	4,698	9,336	20,027	60,795	1,887	6,420	49,251
363	Household appliances.....	55	30	14,740	94,909	11,468	21,186	64,954	195,983	5,182	14,256	156,875
364	Lighting and wiring devices...	197	105	14,369	77,085	11,010	21,615	49,200	145,708	4,910	14,511	127,300
365	Radio and TV receiving equipment.....	61	37	26,858	135,160	22,789	43,696	99,060	254,450	12,027	20,375	192,955
366	Communication equipment.....	62	36	38,848	250,758	23,626	46,172	134,836	467,415	17,265	49,731	449,491
367	Electronic components.....	166	106	17,327	79,762	13,425	26,205	50,805	118,314	11,041	14,212	98,175
369	Electrical products, n.e.c.....	66	30	4,322	24,508	3,011	6,094	15,044	51,023	1,794	2,928	28,871
37	Transportation equipment.....	207	96	34,877	245,663	27,403	57,554	178,120	537,517	21,248	37,511	462,358
371	Motor vehicles and equipment...	134	59	17,818	128,176	14,720	32,484	97,772	317,815	12,818	17,100	209,286
373	Ship and boat building.....	14	4	568	3,470	404	905	2,405	4,418	626	406	3,039
38	Instruments and related products	329	129	28,274	172,105	19,163	37,987	98,724	386,947	12,391	24,115	250,233
381	Scientific instruments.....	48	19	2,369	13,256	1,567	3,100	7,635	29,667	985	2,062	21,036
382	Mechanical measuring devices...	54	25	8,256	47,238	5,872	11,935	29,547	113,789	2,392	4,933	62,687
383	Optical instruments and lenses	16	7	489	3,032	369	775	2,111	4,443	(2)	718	5,382
386	Photographic equipment.....	70	31	7,787	50,281	4,813	9,262	25,567	100,098	2,803	7,908	76,309
39	Miscellaneous manufacturing, including ordnance ²	735	258	27,060	145,399	21,091	42,643	95,547	269,619	9,900	27,343	240,025
391	Jewelry and silverware.....	53	11	961	5,670	726	1,495	3,681	10,372	(9)	1,024	7,913
393	Musical instruments and parts...	39	17	3,639	20,370	2,683	5,796	12,546	45,962	1,563	4,124	40,404
394	Toys and sporting goods.....	132	53	5,884	28,889	4,787	9,340	20,573	57,448	3,157	5,415	60,151
395	Pens, pencils and office supplies.....	67	32	2,199	35,287	1,604	3,286	7,147	23,167	719	1,970	18,398
396	Costume jewelry and notions...	46	10	1,072	4,566	787	1,502	2,766	9,838	(2)	1,447	9,379
399	Miscellaneous manufactures....	398	135	13,305	73,949	10,504	21,224	48,834	122,832	3,829	13,363	103,780
190	Administrative and auxiliary ³ ...	-	-	53,390	479,472	-	-	-	-	-	r 45,781	-
CHICAGO SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	13,554	5,024	861,268	5,479,344	593,995	1,195,478	3,256,471	10,225,172	488,394	r 856,043	8,296,011
20	Food and kindred products.....	1,055	482	75,101	461,457	51,698	106,733	281,985	1,367,477	76,530	87,301	1,135,975
201	Meat products.....	162	72	11,118	70,561	8,764	17,673	50,570	145,535	3,265	18,075	164,269
202	Dairies.....	125	77	5,914	42,536	2,727	5,652	18,899	99,627	4,192	7,409	84,508
205	Bakery products.....	181	82	16,694	96,041	11,322	23,470	59,597	233,189	9,981	18,640	207,565
208	Beverages.....	134	56	7,162	49,837	3,412	7,075	19,925	166,957	7,739	6,493	96,587
23	Apparel and related products...	741	261	28,128	115,977	23,318	42,339	81,346	203,933	2,527	32,038	199,534
234	Women's and children's underwear.....	17	15	2,995	14,804	2,365	4,404	8,273	33,401	(2)	3,530	31,524
235	Millinery, hats and caps.....	41	16	1,093	3,773	949	1,595	3,004	6,864	(2)	1,595	9,859
26	Paper and allied products.....	383	234	29,039	169,927	22,222	46,289	111,724	305,737	22,752	24,715	216,050
265	Paperboard containers and boxes.....	188	127	16,602	95,271	12,818	26,633	63,302	159,193	14,041	13,503	113,993
266	Building paper and board mills	10	7	413	2,790	339	722	2,402	4,872	(2)	490	5,409

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CHICAGO SMSA—Continued												
27	Printing and publishing.....	2,166	564	79,278	556,541	50,623	98,529	333,268	1,030,881	43,228	78,503	806,281
271	Newspapers.....	161	44	13,005	87,914	6,716	11,439	45,816	148,560	6,043	13,407	126,894
274	Miscellaneous publishing.....	86	24	3,905	30,274	1,925	3,784	14,688	67,935	1,323	3,692	45,343
276	Manifold business forms.....	32	15	2,132	15,257	1,554	3,279	9,532	27,600	1,523	1,860	20,521
277	Greeting card manufacturing....	25	12	1,691	6,911	1,296	2,555	4,948	10,951	(Z)	2,426	13,128
28	Chemicals and allied products...	745	242	34,663	227,530	20,551	41,702	111,921	889,133	43,357	33,310	620,113
281	Basic chemicals.....	62	29	4,742	35,272	3,047	6,245	20,276	98,550	9,423	4,676	79,934
29	Petroleum and coal products....	69	36	5,461	38,190	3,954	8,156	24,991	99,163	5,928	6,245	87,724
32	Stone, clay and glass products..	483	165	19,613	116,789	15,175	31,454	81,361	234,883	11,585	18,753	198,294
329	Nonmetallic mineral products...	134	67	10,642	63,498	8,047	16,506	43,052	133,558	6,058	9,871	108,086
33	Primary metal industries.....	407	233	62,274	435,626	50,365	99,862	325,401	723,358	44,321	59,141	597,786
331	Steel rolling and finishing....	57	42	32,533	238,350	26,330	51,280	179,776	389,228	27,280	31,034	344,237
339	Primary metal industries, n.e.c.....	70	34	5,227	37,869	4,264	8,465	28,679	64,605	2,411	5,051	46,676
34	Fabricated metal products.....	1,986	771	92,410	573,612	73,164	150,165	407,735	1,029,781	49,897	97,376	909,842
341	Metal cans.....	15	15	8,790	62,870	7,613	15,917	52,276	113,571	9,331	9,916	114,209
344	Structural metal products.....	468	164	14,631	86,064	11,125	22,263	59,660	156,940	7,253	15,814	158,794
345	Screw machine products.....	296	115	13,686	89,346	10,665	24,133	63,840	157,881	7,996	12,341	108,536
349	Fabricated metal products, n.e.c.....	206	86	16,173	104,761	11,915	23,843	67,921	203,977	11,572	19,564	180,200
35	Machinery, except electrical....	2,053	605	101,339	689,835	71,837	149,601	447,202	1,192,428	54,903	96,780	935,496
351	Engines and turbines.....	5	4	6,206	43,621	4,099	7,903	27,689	65,482	5,763	6,867	66,636
352	Farm machinery and equipment..	34	21	3,291	20,789	2,298	4,766	13,302	38,654	2,715	5,797	45,908
353	Construction and like equipment.....	112	49	22,402	158,212	16,210	33,354	107,205	240,758	14,557	21,063	203,726
354	Metalworking machinery.....	701	158	21,366	153,311	16,348	35,579	108,731	257,663	9,755	18,899	172,832
357	Office machines, n.e.c.....	47	30	7,240	43,002	4,492	8,870	24,200	99,381	4,434	6,115	66,208
359	Miscellaneous machinery.....	493	86	8,404	51,407	6,340	13,438	34,976	92,430	4,788	6,982	64,484
36	Electrical machinery.....	796	439	132,874	750,437	97,674	189,627	470,260	1,398,774	58,612	132,861	1,190,732
363	Household appliances.....	55	30	14,740	94,909	11,468	21,186	64,954	195,983	5,182	14,256	156,875
364	Lighting and wiring devices...	193	102	13,830	74,628	10,602	20,790	47,274	140,249	4,725	14,185	125,037
365	Radio and TV receiving equipment.....	61	37	26,858	135,160	22,789	43,696	99,060	254,450	12,027	20,375	192,955
369	Electrical products, n.e.c....	66	30	4,322	24,508	3,011	6,094	15,044	51,263	1,794	2,928	28,871
37	Transportation equipment.....	198	89	31,124	220,249	24,471	51,628	159,664	493,023	19,284	33,852	440,777
38	Instruments and related products	325	129	28,245	171,956	19,142	37,948	98,623	386,762	12,380	24,077	249,999
382	Mechanical measuring devices..	54	25	8,256	47,238	5,872	11,935	29,547	113,789	2,392	4,933	62,687
39	Miscellaneous manufacturing, including ordnance ³	719	252	26,531	142,114	20,654	41,777	93,064	263,624	9,610	26,602	234,272
395	Pens, pencils and office supplies.....	67	32	2,199	11,955	1,604	3,286	7,147	23,167	719	1,970	18,398
396	Costume jewelry and notions...	46	10	1,072	4,566	787	1,502	2,766	9,838	(Z)	1,447	9,379
--	Administrative and auxiliary ⁴ ...	-	-	52,937	476,328	-	-	-	-	-	44,041	-
DAVENPORT-ROCK ISLAND-MOLINE SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	455	167	41,250	273,025	30,134	60,197	182,076	493,802	35,721	39,235	404,876
20	Food and kindred products.....	86	27	4,381	26,088	3,042	6,074	17,278	45,970	2,700	3,936	38,402
205	Bakery products.....	19	5	732	3,922	463	933	1,982	5,942	(Z)	747	5,227
23	Apparel and related products....	12	9	793	2,579	729	1,221	2,055	4,517	(Z)	644	2,935
24	Lumber and wood products.....	21	8	783	3,506	640	1,255	2,779	5,687	(Z)	646	3,934
25	Furniture and fixtures.....	15	3	368	2,000	279	565	1,216	3,050	(Z)	269	1,744
27	Printing and publishing.....	56	12	1,443	7,536	794	1,629	4,198	11,681	1,997	1,439	11,572
32	Stone, clay and glass products..	22	7	585	3,660	458	956	2,670	12,818	948	485	10,015
33	Primary metal industries.....	29	14	5,461	41,309	4,452	9,656	31,121	86,742	8,928	4,458	56,586
332	Iron and steel foundries.....	11	9	2,414	15,675	2,051	4,159	12,540	18,481	618	2,047	14,933
34	Fabricated metal products.....	47	23	2,558	15,054	1,813	3,660	10,124	28,244	829	3,769	39,158
35	Machinery, except electrical....	112	45	18,780	131,809	14,350	28,368	94,107	247,578	17,113	18,060	207,737
354	Metalworking machinery.....	26	10	865	5,843	688	1,525	4,249	10,554	(Z)	847	7,857
37	Transportation equipment.....	10	4	423	2,853	338	750	2,093	3,908	(Z)	371	2,982
39	Miscellaneous manufacturing, including ordnance ³	10	1	464	2,044	419	669	1,711	3,640	(Z)	398	2,578
--	Administrative and auxiliary ⁴ ...	-	-	1,227	13,130	-	-	-	-	-	959	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PEORIA SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	359	134	40,021	276,684	27,673	55,207	172,264	586,676	24,141	^r 37,636	492,193
20	Food and kindred products.....	75	40	7,364	48,842	5,354	10,966	34,998	162,810	6,646	6,971	124,137
202	Dairies.....	13	8	630	3,571	227	470	1,345	9,734	(Z)	739	7,620
204	Grain mill products.....	12	6	1,745	11,282	1,251	2,584	8,140	25,437	3,377	1,553	24,690
208	Beverages.....	16	9	2,999	20,992	2,439	4,839	16,812	97,628	1,778	2,671	68,778
23	Apparel and related products....	10	4	339	1,147	281	539	829	1,728	(Z)	457	1,692
24	Lumber and wood products.....	16	3	465	2,616	387	775	1,984	3,884	(Z)	577	4,154
26	Paper and allied products.....	9	5	715	4,249	693	1,223	3,281	8,068	(Z)	952	9,555
27	Printing and publishing.....	66	11	1,689	11,198	1,082	2,123	6,896	20,408	1,027	1,392	13,062
275	Commercial printing.....	36	5	837	5,781	678	1,384	4,344	10,340	685	619	6,258
28	Chemicals and allied products..	14	8	670	4,290	499	1,108	3,162	12,248	1,483	472	4,119
32	Stone, clay and glass products..	26	8	535	2,873	408	876	1,957	5,082	(Z)	536	4,447
34	Fabricated metal products.....	37	15	1,166	7,163	852	1,654	4,374	16,454	751	1,044	8,564
344	Structural metal products.....	18	7	409	2,221	281	541	1,193	4,223	(Z)	360	2,844
348	Fabricated wire products, n.e.c.....	6	3	510	3,211	381	737	2,089	6,071	(Z)	340	3,359
--	Administrative and auxiliary ⁴ ...	-	-	3,743	33,400	-	-	-	-	-	^r 4,733	-
ROCKFORD SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	580	223	43,507	271,829	31,212	65,570	176,100	488,026	21,893	^r 40,756	362,831
20	Food and kindred products.....	41	21	2,074	11,223	1,478	2,977	6,690	42,909	1,674	2,094	27,117
202	Dairies.....	11	6	413	3,080	248	526	1,538	7,323	518	592	5,383
205	Bakery products.....	12	5	482	2,530	307	577	1,444	5,321	(Z)	378	2,937
25	Furniture and fixtures.....	20	11	1,435	6,709	1,232	2,515	5,282	7,922	(Z)	1,512	9,010
251	Household furniture.....	11	8	1,265	5,864	1,096	2,217	4,654	6,753	(Z)	1,195	6,784
26	Paper and allied products.....	8	6	428	2,093	322	635	1,528	3,107	(Z)	523	3,821
27	Printing and publishing.....	57	9	838	4,541	579	1,150	3,239	9,199	(Z)	765	7,349
275	Commercial printing.....	37	4	266	1,432	207	445	1,078	2,160	(Z)	236	1,792
28	Chemicals and allied products..	13	5	579	2,998	324	674	1,507	11,643	(Z)	740	7,882
32	Stone, clay and glass products..	28	9	906	5,381	690	1,543	4,071	15,121	1,095	476	7,081
327	Concrete and plaster products..	23	7	577	3,633	460	1,042	2,798	8,377	(Z)	437	6,759
33	Primary metal industries.....	23	14	1,431	8,530	1,084	2,146	6,156	14,258	792	1,629	11,119
332	Iron and steel foundries.....	6	4	584	3,408	494	1,043	2,755	4,305	(Z)	730	3,351
339	Primary metal industries, n.e.c.....	8	6	510	3,519	407	743	2,552	6,386	(Z)	459	4,545
34	Fabricated metal products.....	105	45	11,584	68,982	9,390	19,929	52,283	117,048	5,700	11,771	104,520
342	Cutlery, hand tools, hardware..	17	7	5,333	30,410	4,384	9,104	24,076	52,853	5,296	47,569	
344	Structural metal products.....	20	4	298	1,701	209	407	1,192	2,881	(Z)	1,482	12,883
345	Screw machine products.....	29	18	4,140	26,542	3,358	7,492	19,897	46,307	2,350	3,263	30,396
348	Fabricated wire products, n.e.c.....	7	4	337	1,530	252	503	1,011	2,435	(Z)	262	1,977
349	Fabricated metal products, n.e.c.....	7	5	297	1,689	246	518	1,180	1,918	(Z)	231	2,791
35	Machinery, except electrical....	201	76	13,934	93,594	9,420	20,865	58,307	164,807	6,750	12,982	109,986
354	Metalworking machinery.....	80	33	6,510	47,732	4,302	9,885	28,908	71,602	2,513	5,809	46,412
355	Special industry machinery....	13	8	1,976	12,705	1,268	2,781	8,060	28,103	1,239	1,306	12,191
356	General industrial machinery..	34	14	3,162	21,370	2,194	4,661	13,516	41,951	1,368	2,817	29,834
358	Service industry machines.....	11	6	524	2,423	352	777	1,585	4,619	(Z)	283	2,858
359	Miscellaneous machinery.....	51	8	549	3,191	439	973	2,331	5,858	(Z)	346	2,880
36	Electrical machinery.....	8	3	538	2,611	434	679	1,391	3,580	(Z)	435	4,687
37	Transportation equipment.....	7	4	4,241	31,421	2,856	5,532	18,234	46,449	2,243	4,280	40,623
39	Miscellaneous manufacturing, including ordnance ³	20	5	683	3,500	596	1,286	2,791	6,365	(Z)	769	5,011
--	Administrative and auxiliary ⁴ ...	-	-	266	2,154	-	-	-	-	-	r	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^rRevised.¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas, or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.



1963 CENSUS OF MANUFACTURES

MC63(P)-S15



preliminary
report

Area series

INDIANA

Value added by manufacturing in 1963 in the State of Indiana amounted to \$7,688 million, an increase of 8 percent from 1962 and 40 percent from 1958. Of this total, \$1,418 million was contributed by the primary metal industries and \$1,138 million by the electrical machinery industries, the two leading industry groups in the State.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	6,786	2,509	609,593	3,791,483	462,904	937,551	2,618,655	7,687,872	537,900	111	140
1962 ³	(NA)	(NA)	596,483	3,590,594	452,640	924,228	2,472,038	7,092,322	381,937	108	129
1961 ³	(NA)	(NA)	566,912	3,272,392	425,432	846,916	2,210,511	6,319,564	451,370	103	115
1960 ³	(NA)	(NA)	589,798	3,311,341	444,331	883,857	2,261,653	6,269,170	549,347	107	114
1959 ³	(NA)	(NA)	580,703	3,228,444	438,552	887,517	2,216,632	6,323,778	387,858	105	115
1958.....	6,555	2,444	551,009	2,874,299	407,496	795,956	1,912,847	5,502,123	527,914	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

INDIANA

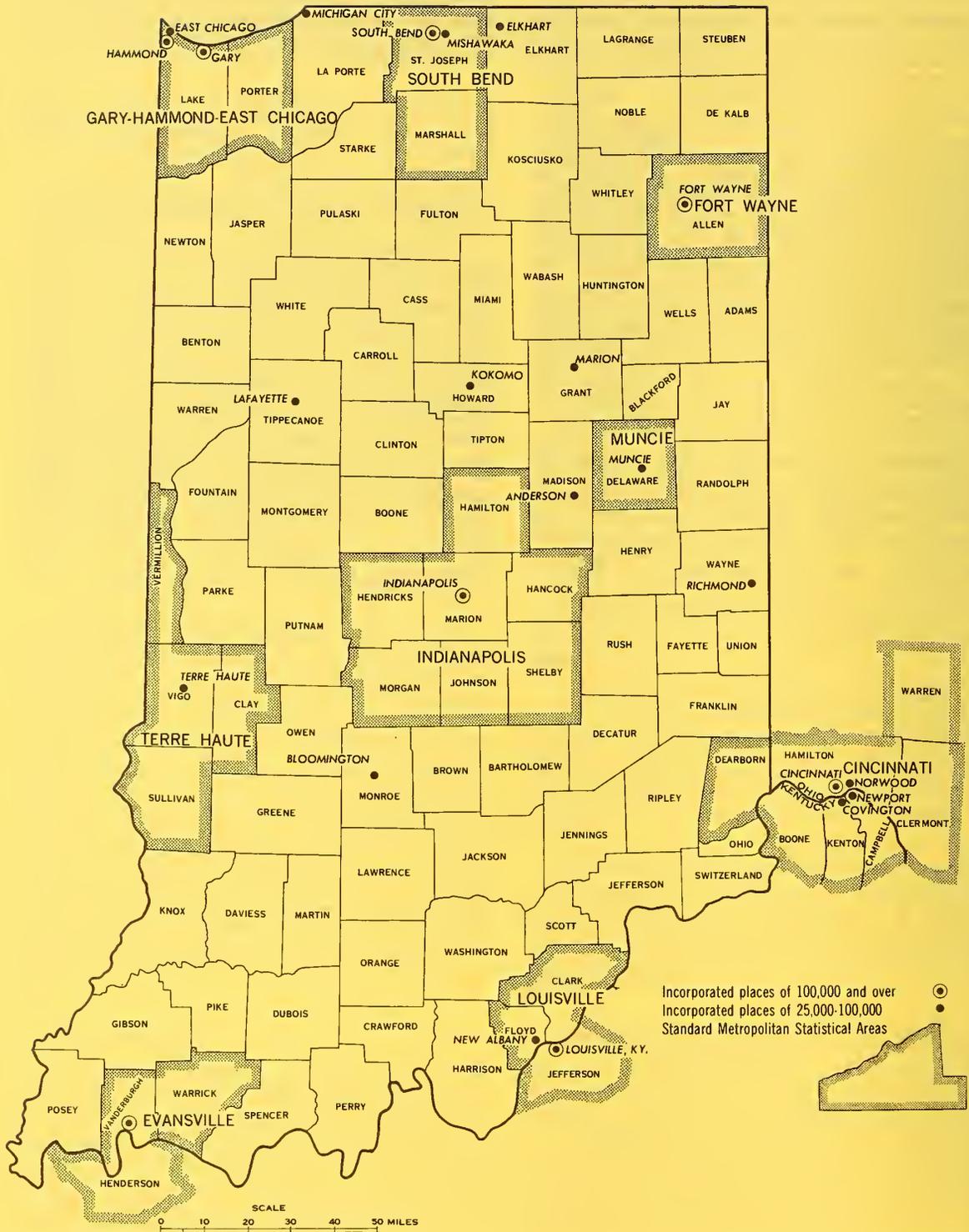


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
INDIANA, TOTAL.....	6,786	2,509	609,593	3,791,483	462,904	937,551	2,618,655	7,687,872	537,900	551,009	5,502,123
STANDARD METROPOLITAN STATISTICAL AREAS											
Anderson ⁷	148	48	26,204	183,771	21,271	45,147	141,771	346,157	15,300	23,467	214,061
Cincinnati ⁵	1,920	766	152,623	965,009	100,463	207,117	555,623	2,007,160	77,912	156,478	1,579,328
Portion in Ohio.....	1,708	700	141,279	900,398	91,633	189,099	509,609	1,826,787	72,631	145,526	1,428,687
Portion in Kentucky.....	179	55	7,505	42,700	5,732	11,747	29,226	80,761	3,080	7,663	70,360
Portion in Indiana.....	33	11	3,839	21,911	3,098	6,271	16,788	99,612	2,201	3,289	80,281
Evansville ⁶	296	120	27,279	155,711	19,249	38,277	95,521	348,342	27,229	27,033	275,310
Portion in Indiana.....	240	94	24,850	146,143	17,222	34,311	88,392	327,505	(D)	24,909	261,745
Portion in Kentucky.....	56	26	2,429	9,568	2,027	3,966	7,129	20,837	(D)	2,174	13,565
Fort Wayne ⁷	361	131	36,516	247,963	24,723	50,380	149,912	431,767	15,285	33,263	289,599
Gary-Hammond-East Chicago ⁸	418	182	97,142	713,213	76,234	150,186	530,841	1,614,425	230,675	99,994	1,281,927
Indianapolis ⁹	1,352	458	115,613	751,123	80,006	163,559	461,943	1,362,373	70,056	105,633	1,025,960
Louisville ¹⁰	873	403	88,441	546,161	65,220	132,142	361,686	1,553,121	72,898	86,653	1,161,445
Portion in Indiana.....	135	64	10,027	51,481	8,281	16,829	38,097	152,275	5,945	8,153	100,351
Portion in Kentucky.....	738	339	78,414	494,680	56,939	115,313	323,589	1,400,846	66,953	78,500	1,061,094
Muncie ¹¹	181	67	16,250	106,849	12,875	26,153	79,649	221,864	9,522	14,968	154,829
South Bend ¹²	434	145	37,644	243,675	26,858	52,712	156,400	360,450	14,761	36,910	361,886
Terre Haute ¹³	214	70	11,552	60,144	8,774	17,589	43,325	147,158	12,550	12,313	107,562
COUNTIES ¹											
Adams.....	46	21	2,921	14,255	2,324	4,604	10,315	28,224	1,543	2,440	23,057
Allen.....	361	131	36,516	247,963	24,723	50,380	149,912	431,767	15,285	33,263	289,599
Bartholomew.....	71	27	12,448	79,911	9,083	18,705	50,800	176,307	12,632	9,738	96,669
Benton.....	10	5	308	1,000	276	490	821	1,031	(2)	173	1,892
Blackford.....	30	10	2,352	11,712	1,782	3,477	7,826	63,747	2,346	1,694	14,648
Boone.....	41	13	1,658	9,008	1,197	2,503	5,224	16,409	831	1,559	16,866
Carroll.....	26	9	883	3,841	754	1,591	3,008	8,772	(2)	686	4,881
Cass.....	62	22	3,460	16,776	2,580	5,079	11,289	37,424	1,642	2,704	20,596
Clark.....	67	29	5,528	31,086	4,427	8,919	22,951	106,530	3,847	4,862	82,961
Clay.....	32	8	1,270	6,312	1,102	2,324	5,358	9,411	801	1,525	8,673
Clinton.....	44	19	2,268	9,949	1,855	3,833	7,258	19,944	838	1,983	14,291
Daviess.....	30	8	1,254	5,537	1,051	1,967	4,446	11,413	(2)	1,258	6,422
Dearborn.....	33	11	3,839	21,911	3,098	6,271	16,788	99,612	2,201	3,289	80,281
Decatur.....	32	9	1,299	6,157	1,095	2,249	4,884	16,257	2,896	791	6,171
De Kalb.....	67	30	3,643	19,098	2,842	5,668	13,197	38,659	2,183	2,917	26,499
Delaware.....	181	67	16,250	106,849	12,875	26,153	79,649	221,864	9,522	14,968	154,829
Dubois.....	110	47	4,523	19,596	3,817	8,616	15,447	34,920	1,359	3,851	22,356
Elkhart.....	433	177	25,253	150,872	19,411	38,904	100,026	388,209	12,349	19,593	239,413
Fayette.....	31	13	4,077	23,180	3,234	6,247	16,645	48,224	1,762	4,520	24,566
Floyd.....	68	35	4,499	20,395	3,854	7,910	15,146	45,745	2,098	3,291	17,390
Fountain.....	24	8	2,328	10,916	2,082	4,244	9,256	18,787	775	1,795	11,278
Franklin.....	15	5	582	2,214	497	961	1,912	3,842	(3)	566	3,320
Fulton.....	34	14	1,627	6,944	1,355	2,743	5,498	14,443	633	708	7,530
Gibson.....	34	12	2,461	13,261	1,809	3,521	8,919	16,787	1,148	2,085	10,196
Grant.....	122	44	14,004	85,758	11,226	23,326	64,475	172,978	7,208	12,180	110,041
Greene.....	36	8	756	3,161	627	1,248	2,340	7,394	613	807	7,522
Hamilton.....	51	18	2,768	16,387	2,288	4,728	12,818	26,958	1,191	2,224	17,930
Hancock.....	33	11	1,183	6,305	889	1,740	3,898	6,802	(D)	798	4,483
Harrison.....	19	4	671	2,597	562	1,042	1,875	4,612	(2)	469	2,901
Henry.....	63	24	4,672	30,153	3,620	7,666	22,293	56,372	1,166	4,317	33,095
Howard.....	87	33	17,169	115,428	13,774	28,874	88,066	234,160	11,879	13,192	109,181
Huntington.....	72	32	4,375	21,002	3,494	7,164	14,171	34,675	1,301	3,665	24,468
Jackson.....	50	25	4,335	19,048	3,838	7,489	15,656	33,478	1,654	3,282	24,273
Jasper.....	24	4	312	1,391	244	440	965	2,645	(2)	360	2,820
Jay.....	30	12	3,494	16,683	2,958	6,264	13,161	31,259	1,583	2,877	20,027
Jefferson.....	38	15	2,630	12,567	2,135	4,430	9,126	25,638	2,604	1,242	8,733
Jennings.....	14	6	791	3,468	683	1,423	2,802	7,333	(2)	666	4,930
Johnson.....	43	19	2,516	13,239	2,142	4,927	10,250	31,279	1,840	1,829	15,294
Knox.....	51	17	2,766	14,166	2,264	4,094	10,847	23,783	751	2,515	20,870
Kosciusko.....	131	53	5,628	30,282	4,559	9,492	21,577	58,193	3,730	4,144	30,802
Lagrange.....	25	6	647	3,878	411	811	1,596	3,915	(2)	244	2,489
Lake.....	359	169	94,124	691,367	74,259	146,134	517,742	1,560,933	202,371	97,611	1,265,063
La Porte.....	164	80	13,297	73,871	10,045	19,892	50,320	144,516	9,085	12,987	102,724
Lawrence.....	56	20	3,674	21,505	3,152	6,656	17,468	31,757	4,312	3,718	22,923
Madison.....	148	48	26,204	183,771	21,271	45,147	141,771	346,157	15,300	23,467	214,061

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Marion.....	1,099	372	104,562	692,826	71,227	145,281	420,500	1,259,660	59,065	96,643	955,259
Marshall.....	86	25	2,469	12,185	2,022	4,020	8,725	21,827	1,955	2,301	19,361
Martin.....	13	5	823	3,766	693	1,552	2,988	16,427	503	792	13,272
Miami.....	55	25	2,401	9,473	2,025	3,844	7,107	23,081	684	2,120	16,618
Monroe.....	68	32	8,275	36,798	7,321	13,711	30,509	117,496	4,389	5,750	60,794
Montgomery.....	39	14	3,856	23,922	3,154	6,866	18,083	43,167	4,862	3,313	26,319
Morgan.....	39	11	978	4,459	760	1,553	3,076	7,918	1,066	602	3,854
Newton.....	15	4	497	1,684	410	883	1,080	3,744	(Z)	421	3,227
Noble.....	68	31	4,038	19,745	3,322	7,066	15,113	39,283	3,221	2,645	18,096
Orange.....	34	8	2,448	9,220	2,232	4,692	7,512	16,754	(Z)	1,799	7,995
Perry.....	26	11	3,261	15,598	2,932	6,045	13,068	33,934	1,554	3,056	21,925
Porter.....	59	13	3,018	21,846	1,975	4,051	13,099	53,492	28,308	2,183	18,864
Pulaski.....	24	7	645	2,140	537	1,038	1,526	3,935	(Z)	310	1,378
Putnam.....	22	4	1,574	9,960	1,237	2,535	7,499	26,011	1,183	1,353	14,789
Randolph.....	67	25	4,413	22,585	3,740	7,128	17,859	40,730	1,640	3,532	28,897
Ripley.....	31	9	2,070	12,406	1,531	3,578	7,293	26,500	1,396	1,398	15,643
Rush.....	28	11	1,230	5,863	970	1,960	4,378	10,788	(Z)	1,246	8,678
St. Joseph.....	348	120	35,175	231,490	24,836	48,692	147,675	338,623	12,906	34,609	342,525
Shelby.....	60	25	3,366	16,733	2,519	4,974	10,472	27,629	1,271	3,400	27,656
Starke.....	35	8	428	1,685	356	682	1,229	3,164	(Z)	525	2,638
Steuben.....	37	8	934	5,513	777	1,635	4,165	16,067	623	512	5,476
Sullivan.....	25	6	441	1,536	358	764	1,232	2,761	(Z)	339	2,206
Tippecanoe.....	87	34	8,156	54,484	6,122	12,369	37,415	102,985	7,769	8,045	83,709
Tipton.....	24	6	875	4,804	705	1,438	3,504	9,881	795	763	5,379
Vanderburgh.....	217	88	24,073	142,098	16,635	33,145	85,655	319,801	(D)	24,533	259,746
Vigo.....	137	51	9,600	51,302	7,178	14,222	36,241	133,415	11,268	9,832	93,843
Wabash.....	78	36	6,502	32,506	5,372	11,084	24,423	62,108	2,861	4,498	36,388
Warrick.....	23	6	777	4,045	587	1,166	2,737	7,704	(D)	378	1,999
Washington.....	27	11	1,507	5,904	1,383	2,983	5,043	10,099	603	1,168	7,011
Wayne.....	129	58	14,209	83,125	10,404	21,359	54,888	164,162	6,156	10,744	102,550
Wells.....	36	13	1,799	10,067	1,428	2,814	6,779	18,740	622	1,323	11,389
White.....	26	8	1,704	7,309	1,527	3,146	6,003	13,152	(Z)	1,045	5,813
Whitley.....	36	15	1,698	8,015	1,380	2,877	5,810	16,386	796	2,295	17,395

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Anderson Standard Metropolitan Statistical Area is coextensive with Madison County, Indiana⁵The Cincinnati, Ohio-Kentucky-Indiana Standard Metropolitan Statistical Area consists of Clermont, Hamilton, and Warren Counties, Ohio, Boone, Campbell, and Kenton Counties, Ky., and Dearborn County, Ind.⁶The Evansville, Indiana-Kentucky Standard Metropolitan Statistical Area consists of Vanderburgh and Warwick Counties, Ind. and Henderson County, Ky.⁷The Fort Wayne, Indiana Standard Metropolitan Statistical Area is coextensive with Allen County, Ind.⁸The Gary-Hammond-East Chicago, Indiana Standard Metropolitan Statistical Area consists of Lake and Porter Counties, Ind.⁹The Indianapolis, Indiana Standard Metropolitan Statistical Area consists of Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.¹⁰The Louisville, Kentucky-Indiana Standard Metropolitan Statistical Area consists of Jefferson County, Ky., and Clark and Floyd Counties, Ind.¹¹The Muncie, Indiana Standard Metropolitan Statistical Area is coextensive with Delaware County, Ind.¹²The South Bend, Indiana Standard Metropolitan Statistical Area consists of Marshall and St. Joseph Counties, Indiana.¹³The Terre Haute, Indiana Standard Metropolitan Statistical Area consists of Clay, Sullivan, Vermillion and Vigo Counties, Ind.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	6,786	2,509	609,593	3,791,483	462,904	937,551	2,618,655	7,687,872	537,900	551,009	5,502,123
20	Food and kindred products.....	879	361	44,970	245,350	30,046	63,077	150,746	611,228	29,990	48,124	525,336
201	Meat products.....	177	50	10,145	61,697	8,012	16,876	46,808	99,064	4,268	11,495	94,315
202	Dairies.....	165	91	6,807	36,789	2,961	6,616	14,241	82,818	4,474	8,977	81,297
203	Canned and frozen foods.....	85	46	5,737	20,218	4,916	9,677	15,138	45,308	1,690	5,256	37,220
204	Grain mill products.....	96	32	5,042	21,829	3,358	7,392	20,423	105,469	7,057	4,907	76,202
207	Candy and related products...	13	6	1,081	5,344	922	1,979	4,071	20,257	662	775	6,437
208	Beverages.....	114	51	6,475	38,063	4,095	8,497	22,035	141,384	5,099	6,245	116,201
209	Miscellaneous foods and kindred products.....	104	33	3,486	19,100	2,470	5,165	12,353	57,706	4,955	3,821	61,770
23	Apparel and related products...	150	91	12,997	43,075	11,609	21,393	34,288	77,187	1,322	12,892	59,283
231	Men's and boys' suits and coats.....	6	5	1,067	3,734	982	1,762	3,046	4,892	(2)	1,123	4,244
232	Men's and boys' furnishings...	36	32	5,969	19,844	5,430	9,967	16,075	34,929	501	5,955	24,860
233	Women's and misses' outerwear	20	19	2,183	6,778	1,883	3,251	5,248	11,301	(2)	1,902	8,315
234	Women's and children's underwear.....	6	6	903	2,454	825	1,682	2,225	8,599	(2)	867	6,442
238	Miscellaneous apparel.....	15	8	842	2,686	751	1,324	2,193	4,815	(2)	1,194	5,507
239	Fabricated textiles, n.e.c....	63	18	1,685	6,838	1,422	2,839	4,846	11,870	553	1,410	8,047
24	Lumber and wood products.....	545	114	10,302	45,546	8,644	17,805	33,345	84,446	4,833	9,438	69,271
242	Sawmills and planing mills...	256	30	1,960	6,313	1,677	3,301	5,145	10,188	1,261	2,002	7,449
243	Millwork and related products	144	51	5,905	30,268	4,857	10,223	21,231	58,083	2,300	5,312	49,066
244	Wooden containers.....	20	5	424	1,294	380	727	1,049	2,144	(2)	616	3,218
249	Miscellaneous wood products..	87	27	1,823	7,183	1,971	3,145	5,496	13,080	983	1,456	9,346
25	Furniture and fixtures.....	282	155	22,462	104,773	18,821	39,179	78,734	184,958	6,485	18,874	126,987
251	Household furniture.....	194	127	18,718	86,300	15,770	32,883	64,688	148,536	5,322	15,946	104,277
252	Office furniture.....	17	14	1,929	8,797	1,588	3,437	7,045	18,382	(2)	1,569	11,622
253	Public building furniture....	15	4	516	2,575	422	896	1,849	5,456	(2)	462	4,000
254	Partitions and fixtures.....	39	8	1,154	6,449	931	1,741	4,681	11,356	586	787	6,400
26	Paper and allied products.....	126	85	12,618	71,994	9,805	20,834	50,838	135,252	7,716	11,073	99,408
264	Paper and paperboard products	54	28	4,817	25,543	3,711	7,651	18,041	53,066	2,471	3,647	30,841
265	Paperboard containers and boxes.....	58	45	6,115	35,664	4,714	10,048	24,483	59,186	4,444	5,401	44,940
27	Printing and publishing.....	871	168	22,225	124,506	14,375	28,886	80,719	233,964	11,578	20,012	159,504
271	Newspapers.....	254	65	8,401	46,894	4,198	7,977	25,444	86,564	2,683	8,178	69,086
272	Periodicals.....	45	5	384	1,743	160	246	574	4,391	(2)	550	5,872
273	Books.....	27	15	4,955	28,664	3,717	7,989	21,863	46,060	4,627	4,213	31,897
275	Commercial printing.....	433	57	5,803	32,231	4,517	9,141	23,407	53,877	3,062	5,051	37,016
278	Bookbinding and related work.	21	7	782	3,230	1,261	2,451	5,698	(2)	519	2,964	
279	Printing trades services.....	63	13	794	5,749	589	1,203	4,243	7,738	(2)	872	6,711
28	Chemicals and allied products..	255	87	23,635	173,248	13,367	26,849	79,439	630,109	29,412	22,415	492,923
281	Basic chemicals.....	36	16	2,403	17,099	1,691	3,388	10,884	69,674	2,626	2,052	75,951
284	Cleaning and toilet goods...	47	11	3,237	22,927	2,134	4,151	13,200	121,835	1,896	3,672	109,076
285	Paints and allied products...	11	1	1,621	10,974	788	1,483	3,936	20,555	1,129	1,072	11,848
287	Agricultural chemicals.....	52	20	1,095	4,890	830	1,641	3,385	12,766	1,325	1,148	14,487
289	Miscellaneous chemical products.....	41	10	994	5,542	685	1,405	3,425	17,646	676	2,054	17,594
29	Petroleum and coal products...	53	21	7,333	58,356	5,418	10,458	39,522	154,338	7,775	9,933	117,522
291	Petroleum refining.....	14	11	6,542	52,290	4,897	9,293	36,486	137,872	6,964	9,156	108,348
295	Paving and roofing materials.	32	8	633	4,296	461	1,024	2,720	10,651	692	611	6,654
30	Rubber and plastics products, n.e.c.....	170	86	22,378	124,735	18,156	36,503	93,337	241,214	12,727	17,357	142,432
307	Plastics products, n.e.c.....	113	49	7,601	38,187	6,170	12,420	27,122	71,831	7,289	4,993	38,853
31	Leather and leather products...	27	16	3,026	11,047	2,189	5,509	9,790	20,834	(2)	2,640	15,727
32	Stone, clay and glass products.	565	164	25,387	136,424	21,033	42,692	104,601	282,527	20,201	26,811	256,101
323	Products of purchased glass...	16	7	837	4,147	717	1,018	3,156	7,455	(2)	635	4,984
325	Structural clay products....	41	29	2,642	13,509	2,273	4,771	11,013	18,513	1,352	3,209	18,653
326	Pottery and related products...	10	5	726	4,433	597	1,198	3,409	7,741	(2)	874	7,629
327	Concrete and plaster products.	372	53	4,689	26,073	3,209	6,736	15,431	67,442	5,546	4,800	52,538
328	Cut stone and stone products...	47	22	2,030	9,577	1,788	3,536	8,036	13,358	674	2,361	14,251
329	Nonmetallic mineral products.	54	28	4,952	27,078	4,139	8,409	21,063	58,753	5,461	4,626	50,278
33	Primary metal industries.....	245	152	93,613	680,725	76,880	155,108	531,033	1,417,541	248,270	87,846	1,047,335
331	Steel rolling and finishing...	27	21	59,295	454,205	48,480	95,288	353,674	1,019,218	204,787	58,388	791,391
332	Iron and steel foundries....	73	54	12,628	80,281	11,045	23,005	67,158	119,442	6,882	11,603	88,219
335	Nonferrous rolling and drawing.....	36	27	12,900	85,832	10,169	21,926	64,355	182,460	13,447	11,365	117,465
336	Nonferrous foundries.....	55	28	3,433	23,704	2,895	6,167	18,435	33,659	3,982	2,329	15,288
339	Primary metal industries, n.e.c.....	39	14	4,047	27,702	3,377	6,849	21,802	45,923	(D)	3,119	26,877

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products.....	721	312	42,960	252,362	33,460	67,547	176,480	459,524	19,538	39,765	357,776
342	Cutlery, hand tools, hardware	64	24	4,387	24,131	3,601	7,302	18,179	48,809	3,685	4,300	37,585
343	Plumbing and heating, except electric.....	34	22	4,057	23,529	2,799	5,586	13,513	52,296	2,560	3,217	29,086
344	Structural metal products....	235	92	11,987	72,168	8,798	17,464	47,456	115,791	3,477	11,879	102,883
345	Screw machine products.....	82	31	2,879	16,468	2,374	5,067	12,377	31,542	1,300	2,728	24,174
346	Metal stampings.....	92	40	7,042	42,602	5,868	11,758	32,708	75,399	2,698	6,246	59,255
348	Fabricated wire products, n.e.c.....	53	27	3,049	16,091	2,581	5,164	12,374	26,597	1,120	2,666	19,950
349	Fabricated metal products, n.e.c.....	65	41	6,684	40,935	5,039	9,988	27,220	79,114	2,707	6,175	60,251
35	Machinery, except electrical...	1,007	279	54,692	349,977	40,381	82,386	236,322	682,946	33,983	45,954	439,517
352	Farm machinery and equipment.	64	36	5,304	29,010	3,837	7,383	18,385	49,275	1,316	4,850	44,014
353	Construction and like equipment.....	51	25	4,375	26,135	3,180	6,145	17,632	54,996	1,106	5,047	43,682
354	Metalworking machinery.....	368	87	8,023	57,206	6,435	14,228	43,266	87,474	7,228	62,986	82,883
355	Special industry machinery...	60	22	2,948	18,435	2,128	4,319	11,890	35,214	1,913	2,856	24,766
356	General industrial machinery.	136	53	16,695	108,917	12,000	24,269	71,801	203,884	11,622	12,399	115,173
358	Service industry machines....	58	18	5,405	30,899	3,986	7,654	20,377	57,287	2,295	4,390	44,251
36	Electrical machinery.....	239	137	93,507	558,203	75,593	151,885	409,262	1,137,752	45,569	75,974	680,987
362	Electric industrial apparatus	38	24	11,573	65,771	8,908	17,117	44,403	124,187	4,540	10,028	91,377
363	Household appliances.....	20	11	9,287	56,897	7,687	15,015	43,231	146,976	4,663	8,666	66,134
364	Lighting and wiring devices..	32	13	6,070	42,178	4,994	10,745	32,314	83,491	5,514	5,886	54,016
365	Radio and TV receiving equipment.....	19	14	18,329	94,022	15,768	30,784	73,821	244,412	8,999	11,133	119,969
366	Communication equipment.....	20	7	11,457	76,260	7,762	15,316	46,027	118,684	7,104	8,135	80,115
367	Electronic components.....	48	31	11,038	54,082	9,212	18,350	39,849	93,338	4,788	10,295	77,811
37	Transportation equipment.....	294	175	88,329	619,163	68,052	138,458	441,150	1,092,402	50,954	79,749	790,457
371	Motor vehicles and equipment.	126	75	57,476	402,039	46,728	94,931	309,337	753,320	35,075	45,057	517,405
372	Aircraft and parts.....	29	22	20,518	154,610	12,916	26,570	85,178	235,152	11,149	25,804	219,294
374	Railroad equipment.....	6	4	3,608	25,404	2,904	6,046	19,824	41,400	1,868	3,165	12,380
379	Transportation equipment, n.e.c.....	101	60	4,800	26,751	3,935	7,695	19,256	46,752	2,304	3,934	31,063
38	Instruments and related products.....	77	23	4,653	23,909	3,618	7,158	16,525	95,014	3,491	3,459	31,417
382	Mechanical measuring devices.	18	10	2,108	11,384	1,695	3,328	8,462	22,954	708	1,625	14,961
384	Medical instruments and supplies.....	26	8	577	3,230	397	812	1,741	9,800	525	819	8,118
39	Miscellaneous manufacturing, including ordnance ³	263	74	13,863	83,088	9,543	19,356	47,993	134,644	3,680	10,035	73,866
391	Jewelry and silverware.....	20	4	949	5,620	713	1,510	3,923	12,536	(Z)	793	7,937
393	Musical instruments and parts	31	17	2,182	13,667	1,690	3,528	9,852	22,252	(Z)	1,553	13,442
394	Toys and sporting goods.....	42	11	1,212	5,332	991	1,850	3,622	8,936	(Z)	2,162	15,096
398												
399	Miscellaneous manufactures ³ ..	149	37	9,112	56,674	5,833	11,887	29,535	87,729	2,641	5,033	34,566
190												
-	Administrative and auxiliary ⁴ ..	-	-	9,155	79,404	-	-	-	-	-	6,701	-

- Represents zero. n.e.c. Not elsewhere classified. (D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CINCINNATI SMSA ("All manufacturing" totals for the Cincinnati Standard Metropolitan Statistical Area (which includes Dearborn County in Indiana) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Ohio.)												
GARY-HAMMOND-EAST CHICAGO SMSA (Consists of Lake and Porter Counties, Ind.)												
	All industries, total ²	418	182	97,142	713,213	76,234	150,186	530,841	1,614,425	230,675	99,994	1,281,927
20	Food and kindred products.....	56	25	3,545	23,788	2,091	4,458	13,394	57,423	4,380	3,578	55,716
202	Dairies.....	14	7	710	5,083	194	396	1,210	10,341	(2)	884	9,076
205	Bakery products.....	10	5	409	2,351	233	505	1,301	3,828	(2)	404	3,734
23	Apparel and related products...	10	7	1,134	4,239	1,007	1,712	3,091	6,934	(2)	1,058	6,774
26	Paper and allied products.....	5	5	573	3,428	440	909	2,446	6,711	623	465	5,920
27	Printing and publishing.....	55	8	2,046	11,636	1,612	3,101	9,339	21,496	921	1,726	14,852
271	Newspapers.....	16	5	774	5,362	563	1,064	4,197	9,529	(2)	626	6,774
28	Chemicals and allied products..	31	17	3,195	24,148	2,345	4,681	16,057	134,186	5,393	3,304	111,306
281	Basic chemicals.....	13	8	1,175	9,535	839	1,711	5,988	47,877	4,470	1,477	63,247
29	Petroleum and coal products....	14	9	6,324	50,731	4,701	8,942	34,989	132,879	6,726	8,906	102,374
32	Stone, clay and glass products	52	21	2,567	16,114	2,034	3,890	11,409	42,625	3,466	3,415	45,171
329	Nonmetallic mineral products	15	9	1,045	6,794	897	1,744	5,409	21,075	2,142	1,102	16,406
33	Primary metal industries.....	31	21	59,662	460,185	48,633	95,911	357,232	1,015,506	203,142	58,728	797,638
331	Steel rolling and finishing..	10	9	54,239	420,497	44,064	86,523	324,988	954,371	200,786	53,512	744,930
339	Primary metal industries, n.e.c.....	6	3	1,745	12,426	1,478	2,954	10,090	19,559	875	1,493	13,105
34	Fabricated metal products.....	47	28	8,727	60,928	6,572	12,859	44,043	100,532	2,229	8,858	87,292
344	Structural metal products....	22	14	4,126	26,705	3,022	5,651	18,208	33,489	902	4,831	38,382
345	Screw machine products.....	6	4	570	3,838	432	863	2,798	6,921	(2)	798	7,823
349	Fabricated metal products, n.e.c.....	8	5	1,848	12,581	1,288	2,679	8,527	24,868	596	1,833	22,103
35	Machinery, except electrical...	47	17	1,418	9,829	1,017	2,111	6,439	18,071	620	1,345	11,484
36	Electrical machinery.....	10	4	651	3,031	502	1,018	2,356	6,866	(2)	447	3,207
37	Transportation equipment.....	9	7	3,753	25,414	2,932	5,926	18,456	44,254	1,964	3,659	21,581
39	Miscellaneous manufacturing, including ordnance ³	16	6	529	3,285	437	866	2,483	5,995	(2)	741	5,753
--	Administrative and auxiliary ⁴ ..	-	-	453	3,144	-	-	-	-	-	1,740	-
INDIANAPOLIS SMSA (Consists of Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.)												
	All industries, total ²	1,352	458	115,613	751,123	80,006	163,559	461,943	1,362,373	70,056	105,633	1,025,960
20	Food and kindred products.....	113	61	10,972	64,718	7,036	15,124	39,487	144,221	5,686	11,829	122,906
202	Dairies.....	20	12	1,450	8,682	552	1,266	2,623	27,753	861	1,751	17,853
205	Bakery products.....	16	13	2,497	13,876	1,192	2,499	6,594	25,799	539	2,368	19,995
208	Beverages.....	11	6	750	4,489	393	846	1,468	11,549	521	737	8,130
209	Miscellaneous foods and kindred products.....	20	10	350	4,322	503	1,071	2,355	18,140	637	947	14,935
23	Apparel and related products...	26	9	948	3,280	831	1,507	2,369	5,012	(2)	1,264	5,738
239	Fabricated textiles, n.e.c....	19	4	260	1,099	210	436	680	2,012	(2)	327	2,240
24	Lumber and wood products.....	61	19	1,460	6,917	1,231	2,655	4,626	14,591	846	1,134	9,152
243	Millwork and related products	31	10	898	5,022	724	1,674	3,051	10,840	(2)	653	6,625
25	Furniture and fixtures.....	47	16	1,276	5,194	1,085	2,063	3,853	8,242	(2)	1,447	9,831
251	Household furniture.....	25	11	752	2,850	641	1,183	2,085	4,408	(2)	1,068	6,477
254	Partitions and fixtures.....	10	3	263	1,275	216	436	907	1,734	(2)	303	2,676
26	Paper and allied products.....	35	21	3,322	17,760	2,548	5,460	12,260	29,351	1,369	3,108	25,053
265	Paperboard containers and boxes.....	12	9	1,376	7,882	1,055	2,280	5,429	11,860	882	1,162	9,602
27	Printing and publishing.....	233	55	6,239	37,457	3,452	6,725	21,367	61,266	1,729	6,268	53,165
273	Books.....	11	6	882	5,137	343	713	2,694	8,302	(2)	747	7,511
275	Commercial printing.....	119	23	1,658	9,965	1,257	2,570	7,139	15,050	815	1,817	13,927
279	Printing trades services.....	26	11	512	3,808	379	790	2,784	4,940	(2)	569	4,239

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
INDIANAPOLIS SMSA—Continued (Consists of Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.)												
28	Chemicals and allied products...	57	24	10,462	83,407	4,994	10,103	31,082	200,154	12,499	9,689	151,784
284	Cleaning and toilet goods...	15	5	518	3,356	174	344	837	9,987	(Z)	970	9,701
285	Paints and allied products...	10	6	711	5,451	342	605	1,704	9,514	(Z)	364	3,851
30	Rubber and plastics products, n.e.c.....	24	8	4,231	25,345	3,392	6,426	19,056	44,434	1,424	3,986	35,395
307	Plastics products.....	13	3	607	2,938	445	1,003	1,809	5,025	(Z)	(D)	(D)
32	Stone, clay and glass products	78	22	2,874	15,929	2,276	4,913	11,385	26,740	2,646	2,793	26,341
33	Primary metal industries.....	36	16	3,267	23,025	2,620	5,581	17,365	44,710	3,453	(D)	(D)
332	Iron and steel foundries.....	9	7	1,450	10,486	1,212	2,595	8,220	18,082	1,403	(D)	(D)
339	Primary metal industries, n.e.c.....	14	3	374	2,215	299	613	1,594	3,728	(Z)	300	2,203
34	Fabricated metal products....	163	66	6,341	37,073	4,619	9,609	23,348	72,133	2,833	7,622	62,345
342	Cutlery, hand tools, hardware	9	4	435	2,273	342	740	1,637	6,373	(Z)	1,135	8,990
344	Structural metal products....	53	19	1,284	7,924	857	1,930	4,766	12,055	(Z)	1,902	14,749
345	Screw machine products.....	27	11	797	4,096	711	1,624	3,349	7,184	(Z)	689	5,261
346	Metal stampings.....	15	3	461	2,380	357	650	1,438	4,284	(Z)	957	7,063
347	Metal services, n.e.c.....	29	10	912	4,711	729	1,469	3,305	10,835	617	724	5,621
349	Fabricated metal products, n.e.c.....	14	8	546	3,251	403	869	1,954	7,394	(Z)	690	6,965
35	Machinery, except electrical...	284	69	13,071	83,218	9,871	20,215	59,035	146,782	4,880	11,386	103,062
353	Construction and like equipment.....	10	6	1,917	11,455	1,406	2,653	7,785	18,423	(Z)	1,582	14,836
354	Metalworking machinery.....	96	21	1,465	11,049	1,219	2,926	8,737	17,157	760	1,639	14,821
355	Special industry machinery...	14	4	269	1,774	204	443	1,117	3,682	(Z)	191	1,588
356	General industrial machinery...	39	13	7,042	45,275	5,256	10,522	32,380	83,575	2,395	(D)	(D)
358	Service industry machines...	24	7	940	5,840	657	1,330	3,618	11,114	595	228	2,250
359	Miscellaneous machinery.....	88	11	1,124	6,119	924	1,928	4,460	9,429	604	984	7,183
36	Electrical machinery.....	50	22	15,242	84,312	12,242	23,636	61,158	162,560	7,412	13,122	144,557
361	Electric distribution products.....	12	4	681	4,060	506	999	2,362	7,810	(Z)	297	3,945
37	Transportation equipment.....	58	36	30,179	221,159	22,200	46,225	147,497	374,392	24,309	24,580	219,350
38	Instruments and related products.....	18	4	470	2,339	365	735	1,781	5,550	(Z)	386	3,146
39	Miscellaneous manufacturing, including ordnance ³	54	7	1,308	6,864	980	2,021	4,586	13,723	(Z)	1,235	10,920
--	Administrative and auxiliary ⁴ ..	-	-	3,519	29,275	-	-	-	-	-	1,490	-
LOUISVILLE SMSA ("All manufacturing" totals for the Louisville Standard Metropolitan Statistical Area (which includes Clark and Floyd Counties in Indiana) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Kentucky.)												

Represents zero. (D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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1963 CENSUS OF MANUFACTURES



MC63(P)-S16

Area series

IOWA

preliminary report

Value added by manufacturing in 1963 in the State of Iowa amounted to \$2,276 million, an increase of 9 percent from 1962 and 35 percent from 1958. Of this total, \$653 million was contributed by the food and kindred products industries and \$476 million by the non-electrical machinery industries the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	3,451	964	178,146	1,043,915	126,865	256,350	686,876	2,275,928	126,707	107	135
1962 ³	(NA)	(NA)	172,951	977,872	124,801	252,049	635,695	2,090,610	109,055	104	124
1961 ³	(NA)	(NA)	171,270	930,952	123,974	249,604	607,053	1,891,771	124,689	103	112
1960 ³	(NA)	(NA)	175,718	921,357	128,954	259,371	605,892	1,815,785	138,443	106	108
1958 ³	(NA)	(NA)	179,576	924,336	133,930	269,717	621,085	1,948,042	111,166	108	116
1958.....	3,567	945	166,126	812,475	120,663	240,999	537,704	1,684,269	103,193	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

August 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
IOWA, TOTAL.....	3,451	964	178,146	1,043,915	126,865	256,350	686,876	2,275,928	126,707	166,126	1,684,269
STANDARD METROPOLITAN STATISTICAL AREAS											
Cedar Rapids ⁴	195	64	23,698	148,459	13,950	29,007	78,635	317,370	10,023	19,045	213,306
Davenport-Rock Island-Moline ⁵	455	167	41,250	273,025	30,134	60,197	182,076	493,802	35,721	39,235	404,876
Portion in Illinois.....	280	106	27,891	184,153	20,392	39,971	121,164	301,773	20,883	27,172	282,092
Portion in Iowa.....	175	61	13,359	88,872	9,742	20,226	60,912	192,029	14,838	12,063	122,784
Des Moines ⁶	380	124	21,858	135,537	14,483	28,313	85,967	294,099	11,310	23,230	241,323
Dubuque ⁷	120	43	10,740	69,501	8,363	16,339	52,077	126,357	8,177	10,581	99,379
Omaha ⁸	585	214	34,992	205,982	24,845	51,017	136,100	423,895	19,979	33,047	317,001
Portion in Iowa.....	61	17	1,778	8,503	1,203	2,566	4,965	18,262	1,405	1,949	13,755
Portion in Nebraska.....	524	197	33,214	197,479	23,642	48,451	131,135	405,633	18,574	31,098	303,246
Sioux City ⁹	173	59	7,704	42,289	5,655	11,624	28,901	73,885	3,311	8,345	66,873
Portion in Iowa.....	163	56	7,519	41,661	5,533	11,391	28,492	72,132	3,113	8,231	65,892
Portion in Nebraska.....	10	3	185	628	122	233	409	1,753	(Z)	114	981
Waterloo ¹⁰	162	55	18,271	118,934	13,649	25,940	84,154	223,113	8,007	18,027	168,836
COUNTIES ¹											
Allamakee.....	30	4	441	2,230	318	677	1,455	5,002	(Z)	361	3,162
Appanoose.....	24	6	344	1,254	255	398	804	2,395	(D)	326	2,074
Black Hawk.....	162	55	18,271	118,934	13,649	25,940	84,154	223,113	8,007	18,027	168,836
Boone.....	27	8	464	2,075	360	656	1,490	3,579	(Z)	464	2,873
Bremer.....	38	4	674	3,689	502	1,030	2,598	6,590	(Z)	692	5,067
Buchanan.....	19	4	253	907	216	436	706	1,815	(Z)	336	2,047
Buena Vista.....	29	6	978	5,481	811	1,694	4,438	7,767	(Z)	764	7,831
Carroll.....	28	8	567	2,132	399	836	1,286	5,183	(Z)	520	4,286
Cass.....	19	4	526	2,983	188	407	903	12,321	(Z)	549	8,614
Cerro Gordo.....	65	20	3,267	18,789	2,496	4,972	13,504	42,345	2,939	3,558	41,109
Cherokee.....	24	5	473	2,056	309	682	1,400	3,606	(Z)	373	3,490
Clay.....	33	7	553	3,149	427	913	2,261	5,464	(Z)	528	3,075
Clayton.....	47	6	571	1,858	488	987	1,464	3,631	(Z)	512	3,437
Clinton.....	62	24	5,733	34,161	4,280	8,712	22,498	88,222	14,281	5,460	75,335
Crawford.....	11	2	530	3,448	425	1,092	2,657	3,821	(Z)	115	991
Dallas.....	32	14	666	2,946	514	1,075	2,041	6,535	(Z)	571	4,763
Delaware.....	22	5	312	1,217	248	556	894	2,469	(Z)	194	1,501
Des Moines.....	84	42	8,296	43,614	6,372	12,671	30,393	104,590	4,049	6,430	56,479
Dickinson.....	19	2	373	1,442	233	492	733	4,472	(Z)	238	1,336
Dubuque.....	120	43	10,740	69,501	8,363	16,339	52,077	126,357	8,177	10,581	99,379
Emmet.....	15	6	796	4,504	577	1,220	3,246	7,907	(Z)	697	6,493
Fayette.....	41	9	859	3,641	404	804	1,573	5,513	(Z)	949	5,501
Floyd.....	24	5	2,880	18,077	2,088	4,050	12,342	25,654	1,309	2,020	21,995
Franklin.....	26	3	311	1,614	234	492	1,182	3,413	(Z)	340	2,719
Grundy.....	21	5	305	1,184	247	534	840	3,088	(Z)	227	1,457
Hamilton.....	30	11	1,302	5,829	1,039	2,116	4,042	18,402	512	1,178	10,445
Hardin.....	37	6	475	2,288	352	780	1,563	9,078	(Z)	521	7,986
Henry.....	17	4	250	860	195	328	578	1,758	(Z)	231	1,719
Humboldt.....	22	5	341	1,662	214	459	890	4,279	(Z)	303	2,656
Iowa.....	22	4	1,214	5,949	936	1,602	3,939	10,289	(Z)	1,093	8,936
Jackson.....	24	2	1,108	5,955	831	1,551	4,099	9,177	550	1,641	12,005
Jasper.....	39	14	4,277	26,173	2,943	6,110	16,506	82,542	1,787	5,169	67,201
Jefferson.....	23	12	1,479	7,153	1,078	2,169	4,418	13,056	564	1,340	9,194
Johnson.....	46	14	1,528	7,793	1,121	2,232	5,066	57,668	1,525	739	25,335
Jones.....	32	6	427	2,067	316	645	1,343	5,299	(Z)	354	2,642
Kossuth.....	25	3	338	1,548	239	553	1,020	3,071	(Z)	291	2,040
Lee.....	59	26	6,242	35,396	4,741	9,615	23,192	82,076	5,600	4,974	58,211
Linn.....	195	64	23,698	148,459	13,950	29,007	78,635	317,370	10,023	19,045	213,306
Mahaska.....	28	9	823	3,481	103	2,323	5,782	10,223	(Z)	802	4,403
Marion.....	30	6	1,087	5,054	921	1,884	3,887	10,567	(Z)	920	7,659
Marshall.....	55	22	4,387	27,132	3,030	6,551	16,807	74,547	2,406	3,763	50,401
Muscatine.....	60	24	3,137	16,541	2,254	4,708	9,835	40,296	8,594	3,088	24,003
O'Brien.....	19	3	306	1,212	238	521	846	3,514	(Z)	313	3,170
Page.....	26	5	440	2,070	298	614	1,158	4,767	(Z)	322	2,703
Plymouth.....	25	5	462	1,861	294	602	1,094	3,737	786	308	2,244

See footnotes at end of table.

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Polk.....	380	124	21,858	135,537	14,483	28,313	85,967	294,099	11,310	23,230	241,323
Pottawattamie.....	61	17	1,778	8,503	1,203	2,566	4,965	18,262	1,405	1,949	13,755
Poweshiek.....	23	6	464	1,817	336	661	1,175	3,048	(Z)	471	2,654
Sac.....	26	6	387	1,645	275	643	1,054	3,756	(Z)	368	3,972
Scott.....	175	61	13,359	88,872	9,742	20,226	60,912	192,029	14,838	12,063	122,784
Sioux.....	40	8	854	3,369	722	1,509	2,595	6,624	675	576	3,805
Story.....	46	15	1,386	5,221	1,039	2,083	3,500	16,278	537	998	6,612
Washington.....	25	8	528	2,270	371	692	1,276	6,157	(Z)	477	4,586
Webster.....	64	27	4,462	26,507	3,376	6,785	19,302	61,217	2,429	3,996	52,415
Winebago.....	25	5	731	2,895	593	1,220	2,111	6,241	525	148	420
Winneshek.....	25	6	344	1,379	258	546	962	2,470	(Z)	249	1,745
Woodbury.....	163	56	7,519	41,661	5,533	11,391	28,492	72,132	3,113	8,231	65,892
Wright.....	28	7	606	2,999	353	774	1,681	10,951	(Z)	456	7,959

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. Revised.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Cedar Rapids Standard Metropolitan Statistical Area is coextensive with Linn County, Iowa.⁵The Des Moines Standard Metropolitan Statistical Area is coextensive with Polk County, Iowa.⁶The Dubuque Standard Metropolitan Statistical Area is coextensive with Dubuque County, Iowa.⁷The Omaha Standard Metropolitan Statistical Area consists of Douglas and Sarpy Counties, Nebr., and Pottawattamie County, Iowa.⁸The Sioux City Standard Metropolitan Statistical Area consists of Woodbury County, Iowa and Dakota County, Nebr.⁹The Waterloo Standard Metropolitan Statistical Area is coextensive with Black Hawk County, Iowa.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	3,451	964	178,146	1,043,915	126,865	256,350	686,876	2,275,928	126,707	166,126	1,684,269
20	Food and kindred products.....	921	287	50,654	304,875	35,130	72,394	205,312	653,063	39,262	53,073	539,951
201	Meat products.....	119	62	25,665	171,703	20,220	40,239	133,316	274,220	9,342	27,332	230,456
202	Dairies.....	341	70	5,932	28,927	3,165	7,263	14,224	73,238	5,818	7,025	71,639
203	Canned and frozen foods.....	29	11	1,877	7,281	1,592	3,236	5,380	25,482	(D)	1,808	12,744
204	Crain mill products.....	172	57	8,632	52,727	5,106	11,259	30,276	174,411	11,822	8,539	144,828
208	Beverages.....	71	26	1,995	10,835	950	2,020	4,195	22,801	4,517	1,639	15,004
209	Miscellaneous foods and kindred products.....	90	29	2,148	12,077	1,377	3,025	6,901	45,751	2,564	2,178	33,240
23	Apparel and related products...	72	34	3,413	10,445	3,077	5,518	8,514	17,561	601	3,888	17,887
232	Men's and boys' furnishings..	14	10	1,235	3,264	1,155	2,002	2,956	5,869	(Z)	1,158	4,300
239	Fabricated textiles, n.e.c....	32	6	627	2,349	502	974	1,619	3,334	(Z)	988	5,601
24	Lumber and wood products.....	174	31	3,394	15,193	2,819	5,394	11,599	27,060	1,227	4,712	30,195
243	Millwork and related products	43	17	2,417	11,710	1,993	3,954	8,863	21,418	733	3,821	25,541
249	Miscellaneous wood products..	19	4	254	974	206	373	659	1,583	(Z)	234	1,382
25	Furniture and fixtures.....	67	19	2,316	12,418	1,680	3,397	7,266	26,117	1,241	2,695	20,132
251	Household furniture.....	39	11	1,334	7,043	974	1,965	3,946	13,406	503	1,611	10,032
26	Paper and allied products.....	34	28	3,052	16,016	2,424	5,092	11,406	40,002	2,197	2,417	27,016
265	Paperboard containers and boxes.....	19	17	1,702	9,135	1,376	3,015	6,663	19,766	1,235	1,235	15,241
27	Printing and publishing.....	659	84	11,616	61,963	6,604	12,943	33,970	124,397	4,765	11,228	103,593
271	Newspapers.....	309	39	5,604	28,028	3,019	5,652	15,080	51,252	2,198	5,644	46,961
272	Periodicals.....	35	4	2,411	15,171	1,045	2,163	7,374	40,836	(Z)	2,483	31,944
275	Commercial printing.....	237	27	2,390	11,693	1,756	3,544	7,897	18,912	1,451	2,230	16,800
278	Bookbinding and related work.	13	3	447	3,126	257	521	1,065	3,887	(Z)	194	798
28	Chemicals and allied products..	142	33	5,034	30,358	3,151	6,230	16,480	139,413	16,126	4,442	92,684
281	Basic chemicals.....	15	6	597	3,752	477	981	2,610	15,540	2,543	384	5,185
283	Drugs.....	14	3	865	5,201	392	759	1,850	15,274	1,215	905	15,530
284	Cleaning and toilet goods....	32	5	579	3,227	320	675	1,507	47,385	(Z)	580	20,848
285	Paints and allied products...	12	4	518	3,151	331	638	1,803	19,467	(Z)	473	11,689

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
30	Rubber and plastics products, n.e.c.:											
307	Plastics products, n.e.c.....	29	11	1,711	8,145	1,410	2,702	6,001	14,437	1,366	890	4,358
31	Leather and leather products...	11	7	568	1,710	451	735	1,157	2,655	(Z)	290	958
32	Stone, clay and glass products.	309	58	5,862	33,342	4,659	10,110	24,977	98,369	7,967	5,888	83,240
324	Cement, hydraulic.....	5	5	1,270	8,475	1,110	2,284	7,027	32,045	3,493	1,423	29,561
325	Structural clay products.....	21	17	1,062	5,436	861	1,893	4,210	7,876	605	1,177	8,679
327	Concrete and plaster products	269	36	3,476	19,132	2,643	5,839	13,569	58,058	3,853	3,216	44,521
33	Primary metal industries.....	70	34	6,959	47,018	5,679	12,025	35,400	106,092	11,570	5,294	62,276
332	Iron and steel foundries.....	30	20	2,596	14,719	2,223	4,367	12,090	23,199	1,339	2,007	13,581
336	Nonferrous foundries.....	23	7	623	3,021	531	1,090	2,314	5,245	(Z)	406	2,508
34	Fabricated metal products.....	216	79	9,446	52,741	7,140	14,754	35,799	103,121	3,937	8,527	94,219
342	Cutlery, hand tools, hardware	21	6	633	3,295	522	960	2,253	6,427	(Z)	734	9,659
344	Structural metal products....	112	40	4,131	23,301	3,179	6,565	16,142	42,958	1,260	2,823	28,474
346	Metal stampings.....	11	5	747	3,873	598	1,264	2,784	5,268	(Z)	1,041	7,690
348	Fabricated wire products, n.e.c.....	12	5	553	2,658	475	935	1,979	4,843	(Z)	439	2,415
349	Fabricated metal products, n.e.c.....	24	9	2,125	12,824	1,423	3,129	8,138	31,678	1,205	1,716	22,332
35	Machinery, except electrical...	411	136	35,489	229,454	26,809	53,093	159,460	476,344	21,380	31,274	301,412
352	Farm machinery and equipment.	119	55	21,605	146,413	16,826	32,499	106,289	287,664	14,589	18,888	190,287
353	Construction and like equipment.....	48	24	5,746	35,883	4,005	8,338	22,289	80,666	2,830	5,823	55,811
354	Metalworking machinery.....	50	13	1,658	10,800	1,159	2,424	6,564	18,008	1,146	1,254	11,022
355	Special industry machinery...	37	16	1,573	8,961	1,158	2,311	5,719	18,375	(Z)	1,305	12,777
358	Service industry machines....	15	7	1,052	6,520	820	1,765	4,466	31,991	(Z)	618	5,196
359	Miscellaneous machinery.....	103	6	700	3,241	596	1,261	2,571	5,822	(Z)	510	3,899
36	Electrical machinery.....	56	35	19,635	107,380	12,896	25,918	61,772	256,121	6,321	14,765	163,748
363	Household appliances.....	10	7	3,573	21,031	3,181	6,355	17,997	84,740	1,635	5,015	70,226
367	Electronic components.....	14	11	3,205	13,787	2,615	4,937	9,776	36,360	793	1,794	17,255
37	Transportation equipment.....	68	29	2,571	13,506	2,065	4,120	9,068	25,727	1,181	3,883	30,983
371	Motor vehicles and equipment.	35	14	1,188	5,941	972	2,031	4,320	13,223	851	1,200	9,160
38	Instruments and related products	32	9	2,442	14,909	1,509	3,163	7,668	26,739	1,326	1,749	11,781
39	Miscellaneous manufacturing, including ordnance ³	154	41	8,133	41,509	6,249	12,377	27,765	74,006	3,627	6,112	49,497
396	Costume jewelry and notions..	18	9	602	2,077	476	861	1,268	3,633	(Z)	979	4,536
--	Administrative and auxiliary ⁴ ..	-	-	1,949	14,612	-	-	-	-	-	1,627	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

DAVENPORT-ROCK ISLAND-MOLINE SMSA

("All manufacturing" totals for the Davenport-Rock Island-Moline SMSA (which includes Scott County in Iowa) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Illinois.)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

POSTAGE AND FEES PAID
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1963 CENSUS OF MANUFACTURES



MC63(P)-S17

Area series

KANSAS

preliminary report

Value added by manufacturing in 1963 in the State of Kansas amounted to \$1,437 million, an increase of 6 percent from 1962 and 23 percent from 1958. Of this total, \$433 million was contributed by the transportation equipment industries and \$239 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	2,440	678	113,623	681,402	84,322	175,705	461,026	1,436,874	86,815	96	123
1962 ³	(NA)	(NA)	114,076	661,871	83,578	170,709	437,567	1,356,972	73,081	96	116
1961 ³	(NA)	(NA)	108,922	610,649	79,664	159,727	399,677	1,266,846	56,736	92	108
1960 ³	(NA)	(NA)	111,290	602,290	81,326	164,087	402,513	1,237,677	59,426	94	106
1959 ³	(NA)	(NA)	116,132	613,589	85,650	174,448	419,126	1,202,662	76,916	98	103
1958.....	2,287	643	118,830	590,826	86,641	173,943	403,704	1,171,017	98,959	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

July 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS,



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

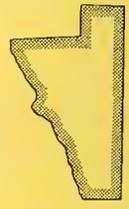
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



KANSAS

- Incorporated places of 100,000 and over ●
- Incorporated places of 25,000-100,000 ●
- Standard Metropolitan Statistical Areas (shaded)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
KANSAS, TOTAL.....	2,440	678	113,623	681,402	84,322	175,705	461,026	1,436,874	86,815	118,830	1,171,017
STANDARD METROPOLITAN STATISTICAL AREAS											
Kansas City ⁴	1,698	610	111,660	686,415	75,500	152,296	422,156	\$1,508,433	75,861	102,960	1,069,063
Portion in Missouri.....	1,328	478	84,796	512,141	55,186	109,018	295,959	\$1,035,583	56,933	79,222	765,843
Portion in Kansas.....	370	132	26,864	174,274	20,314	43,278	126,201	472,850	18,928	23,738	303,220
Topeka ⁶	132	42	6,667	40,911	4,849	10,275	28,369	101,910	8,515	6,185	74,488
Wichita ⁷	506	141	43,216	286,933	31,287	64,424	182,647	463,088	22,712	54,494	473,465
COUNTIES											
Allen.....	29	9	856	4,087	708	1,349	3,305	11,296	549	799	9,962
Atchison.....	28	10	1,617	7,800	1,333	2,602	5,825	13,032	(Z)	1,786	12,319
Barton.....	31	6	683	3,578	506	1,107	2,637	7,853	(Z)	399	3,436
Bourbon.....	24	8	629	2,240	498	974	1,429	6,118	(Z)	766	6,618
Brown.....	12	3	309	1,189	284	586	1,048	2,006	(Z)	283	1,615
Butler.....	33	9	1,690	10,728	1,255	2,767	7,677	50,856	12,103	1,878	21,217
Cherokee.....	22	7	1,369	7,209	1,107	2,112	5,334	24,208	517	1,411	19,774
Cowley.....	36	16	1,941	10,923	1,489	3,251	8,497	27,758	972	1,789	18,823
Crawford.....	52	15	1,588	7,817	1,201	2,503	5,619	15,007	955	1,473	10,340
Dickinson.....	23	5	638	3,660	420	963	1,966	7,356	(Z)	562	5,666
Douglas.....	50	14	2,289	10,885	1,738	3,400	7,331	28,991	8,428	1,742	20,202
Finnney.....	24	6	430	1,935	260	505	836	5,196	(Z)	273	2,778
Ford.....	39	10	685	3,264	457	987	1,918	8,539	(Z)	617	6,229
Franklin.....	22	6	608	2,362	467	1,060	1,671	2,978	(Z)	581	2,374
Harvey.....	42	16	1,568	7,486	1,154	2,570	5,163	13,730	604	1,219	11,910
Jackson.....	9	2	285	959	255	468	798	1,247	(Z)	158	1,169
Johnson.....	102	28	2,895	14,709	2,272	4,376	10,336	29,149	1,126	2,122	15,445
Labette.....	43	14	1,120	4,173	910	1,822	2,882	8,039	(Z)	1,010	6,007
Leavenworth.....	25	12	1,151	5,517	892	1,732	3,855	10,854	515	1,252	10,340
Lyon.....	31	11	1,099	4,670	765	1,560	2,864	7,780	746	841	5,911
McPherson.....	29	11	759	4,705	552	1,166	3,199	14,907	1,554	879	10,625
Miami.....	13	6	507	2,148	407	847	1,576	4,197	(Z)	387	2,195
Montgomery.....	75	24	3,734	18,253	2,933	5,906	12,922	37,677	1,838	4,583	38,632
Neosho.....	32	12	828	3,671	1,357	2,878	2,878	8,623	(Z)	728	8,599
Pratt.....	12	5	261	1,123	181	382	748	1,411	(Z)	222	1,489
Reno.....	101	36	4,046	21,160	3,006	6,384	13,927	43,234	2,753	3,108	32,233
Rice.....	12	3	275	1,419	216	461	1,035	3,459	(Z)	269	2,690
Saline.....	58	22	1,374	7,492	836	1,832	4,247	16,958	780	1,551	15,843
Sedgwick.....	473	132	41,526	276,205	30,032	61,657	174,970	412,232	10,609	52,616	452,248
Seward.....	14	4	268	1,536	173	426	962	5,674	8,764	211	2,087
Shawnee.....	132	42	6,667	40,911	4,849	10,275	28,369	101,910	8,515	6,185	74,488
Sumner.....	26	4	306	1,720	246	617	1,276	2,490	(Z)	379	2,837
Wyandotte.....	268	104	23,969	159,565	18,042	38,902	115,865	443,701	17,802	21,616	287,775

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The Kansas City Standard Metropolitan Statistical Area consists of Cass, Clay, Jackson and Platte Counties, Mo., and Johnson and Wyandotte Counties, Kansas.

⁵The 1960-1962 value added figures for the Kansas City Standard Metropolitan Statistical Area have been revised as follows:

Year	Value added by manufacture (\$1,000)	
	As published	As revised
1962.....	1,561,961	1,440,858
1961.....	1,329,874	1,191,133
1960.....	1,364,538	1,264,538

No revisions to the 1959 and earlier years data are required.

⁶The Topeka Standard Metropolitan Statistical Area is coextensive with Shawnee County, Kansas.

⁷The Wichita Standard Metropolitan Statistical Area consists of Butler and Sedgwick Counties, Kansas.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,440	678	113,623	681,402	84,322	175,705	461,026	436,874	86,815	118,830	1,171,017
20	Food and kindred products.....	537	181	21,182	122,051	14,487	31,309	81,003	238,511	12,308	21,970	215,784
201	Meat products.....	104	34	8,919	57,480	6,956	14,427	44,435	83,527	2,635	9,201	73,367
202	Dairies.....	113	40	3,299	16,229	1,579	3,320	6,709	33,375	3,797	3,853	33,465
204	Grain mill products.....	125	47	3,746	23,138	2,761	6,608	16,278	61,736	3,169	3,611	56,153
208	Beverages.....	58	19	1,215	5,791	596	1,432	2,045	10,916	760	1,017	9,954
209	Miscellaneous foods and kindred products.....	63	16	1,184	5,814	779	1,694	3,454	16,023	872	1,125	10,847
23	Apparel and related products....	71	37	3,837	11,457	3,509	6,580	9,648	19,252	(Z)	2,766	12,385
232	Men's and boys' furnishings....	13	10	1,305	3,568	1,207	2,237	2,996	7,036	(Z)	1,022	3,972
233	Women's and misses' outerwear..	15	10	940	2,991	868	1,581	2,632	4,600	(Z)	762	3,329
239	Fabricated textiles, n.e.c.....	34	11	827	2,736	720	1,400	2,122	4,661	(Z)	549	3,170
24	Lumber and wood products.....	93	13	892	3,575	753	1,503	2,718	4,899	(Z)	745	4,662
242	Sawmills and planing mills....	30	3	250	969	213	429	754	1,416	(Z)	187	825
243	Millwork and related products..	34	7	465	2,076	384	761	1,527	2,217	(Z)	457	3,291
25	Furniture and fixtures.....	58	12	1,372	6,453	1,064	2,135	4,470	11,507	(Z)	1,117	8,956
251	Household furniture.....	30	7	795	3,599	660	1,298	2,623	6,981	(Z)	593	5,796
26	Paper and allied products.....	28	16	2,611	13,463	2,047	4,225	9,620	25,394	2,080	2,064	17,735
265	Paperboard containers and boxes.....	13	11	1,834	10,321	1,446	3,028	7,240	20,538	1,696	1,674	14,163
27	Printing and publishing.....	242	74	8,238	37,838	5,640	10,875	24,560	63,587	5,428	7,576	52,423
271	Newspapers.....	513	34	3,278	15,452	1,820	3,550	8,625	26,853	1,477	3,523	24,405
274	Miscellaneous publishing.....	11	3	379	1,449	294	595	1,107	2,636	(Z)	297	1,924
275	Commercial printing.....	172	17	1,508	7,545	1,201	2,392	5,492	12,668	928	1,301	9,674
278	Bookbinding and related work..	10	3	281	1,617	235	532	1,192	3,349	(Z)	244	2,237
28	Chemicals and allied products...	109	37	6,271	40,649	4,493	9,214	26,429	192,217	31,129	5,749	125,461
281	Basic chemicals.....	25	11	2,244	14,391	1,627	3,347	9,772	57,217	18,223	2,182	40,938
289	Miscellaneous chemical products.....	16	10	961	5,327	731	1,537	3,675	15,938	289	1,426	16,639
29	Petroleum and coal products....	30	16	3,954	27,728	3,083	6,531	20,218	111,052	15,952	4,448	72,097
291	Petroleum refining.....	17	14	3,698	26,143	2,918	6,173	19,358	100,570	15,802	4,169	69,595
30	Rubber and plastics products, n.e.c.:											
307	Plastics products, n.e.c.....	25	6	399	1,799	326	590	1,044	3,108	(Z)	225	1,251
32	Stone, clay and glass products..	195	45	6,625	37,981	5,174	10,722	28,924	85,988	7,920	6,088	76,744
324	Cement, hydraulic.....	7	7	1,146	6,750	930	1,831	5,094	20,930	604	1,307	24,489
327	Concrete and plaster products..	143	22	1,838	9,622	1,218	2,620	5,881	24,439	1,821	1,762	21,854
33	Primary metal industries.....	37	19	2,019	10,134	1,721	3,443	7,944	17,109	541	1,879	12,160
34	Fabricated metal products.....	173	67	5,513	29,116	4,456	8,964	21,443	63,582	2,237	5,267	48,156
344	Structural metal products....	106	41	2,785	15,406	2,002	4,093	9,783	28,800	1,064	2,792	23,533
348	Fabricated wire products, n.e.c.....	10	7	314	1,385	252	483	933	2,615	(Z)	283	2,412
349	Fabricated metal products, n.e.c.....	20	5	459	2,777	377	781	2,070	5,513	(Z)	527	4,857
35	Machinery, except electrical....	312	85	8,437	46,535	6,027	12,744	28,873	92,400	4,291	8,412	67,823
352	Farm machinery and equipment..	83	27	1,944	9,227	1,359	2,978	5,664	18,967	971	1,953	19,215
353	Construction and like equipment.....	30	12	1,635	10,067	1,100	2,329	5,572	13,919	451	1,749	12,850
354	Metalworking machinery.....	28	8	345	1,782	249	496	1,161	3,045	(Z)	376	2,817
355	Special industry machinery....	19	9	809	4,833	547	1,220	2,635	8,055	(Z)	648	6,963
356	General industrial machinery..	16	9	1,130	6,858	688	1,458	3,879	14,697	(Z)	897	9,565
358	Service industry machines.....	35	7	859	4,362	629	1,139	2,663	15,310	(Z)	1,447	5,850
36	Electrical machinery.....	42	15	2,907	13,821	2,276	4,678	9,387	24,076	1,172	1,457	11,291
369	Electrical products, n.e.c.....	10	5	732	4,836	621	1,312	3,964	13,343	(Z)	586	5,232
37	Transportation equipment.....	101	37	34,497	245,647	26,403	56,143	167,060	433,130	8,324	44,890	394,929
379	Transportation equipment, n.e.c.....	29	12	1,371	6,857	1,131	2,343	5,293	15,535	(Z)	579	5,088
-	Administrative and auxiliary ³ ...	-	-	1,407	10,799	-	-	-	-	-	866	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
KANSAS CITY SMSA ("All manufacturing" totals for the Kansas City Standard Metropolitan Statistical Area (which includes Johnson and Wyandotte Counties in Kansas) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Missouri.)												
WICHITA SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	506	141	43,216	286,933	31,287	64,424	182,647	463,088	22,712	54,494	473,465
20	Food and kindred products.....	76	35	3,999	24,023	2,601	5,502	14,396	48,148	1,709	4,150	43,453
201	Meat products.....	15	7	1,672	10,887	1,380	2,752	8,438	18,801	(Z)	1,684	13,481
202	Dairies.....	11	7	612	3,528	203	428	907	7,627	574	743	7,408
204	Grain mill products.....	13	6	571	3,747	451	1,108	2,830	10,552	(Z)	618	11,486
205	Bakery products.....	13	7	553	2,874	259	542	1,203	5,330	(Z)	561	4,880
209	Miscellaneous foods and kindred products.....	15	4	291	1,539	172	369	713	4,229	(Z)	327	4,296
23	Apparel and related products...	15	6	363	1,207	299	590	889	1,958	(Z)	166	1,061
27	Printing and publishing.....	86	9	1,401	8,321	846	1,646	4,899	14,418	1,215	1,652	13,112
275	Commercial printing.....	46	4	338	1,965	257	520	1,382	3,194	(Z)	437	3,421
28	Chemicals and allied products..	20	4	568	3,436	372	799	2,162	11,085	(D)	520	9,556
32	Stone, clay and glass products.	25	6	321	1,786	173	385	857	3,998	(Z)	548	6,624
33	Primary metal industries.....	13	7	400	1,721	359	750	1,399	2,788	(Z)	360	2,223
332	Iron and steel foundries.....	5	4	280	1,134	253	513	947	1,753	(Z)	239	1,191
34	Fabricated metal products.....	55	18	2,113	11,449	1,828	3,857	9,404	28,385	886	1,963	20,810
35	Machinery, except electrical...	78	17	1,173	5,666	878	1,774	3,778	8,715	(Z)	2,581	11,954
37	Transportation equipment.....	46	16	28,699	201,611	21,635	44,443	132,079	280,768	4,479	39,273	331,974
--	Administrative and auxiliary ³ ..	-	-	1,167	8,990	-	-	-	-	-	514	-

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

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1963 CENSUS OF MANUFACTURES

MC63(P)-S18



Area series

KENTUCKY

preliminary report

Value added by manufacturing in 1963 in the State of Kentucky amounted to \$2,460 million, an increase of 11 percent from 1962 and 39 percent from 1958. Of this total, \$364 million was contributed by the food and kindred products industry and \$352 million by the electrical machinery industry, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	2,886	1,001	181,600	963,329	140,610	279,561	657,429	2,460,058	226,342	112	139
1962 ³	(NA)	(NA)	175,784	900,228	133,933	263,306	596,163	2,206,989	140,335	108	125
1961 ³	(NA)	(NA)	169,123	839,055	127,359	249,573	549,028	2,025,479	122,066	104	114
1960 ³	(NA)	(NA)	172,556	816,840	132,056	258,979	546,608	1,946,519	110,648	106	110
1959 ³	(NA)	(NA)	173,843	805,859	133,891	265,249	548,203	2,062,906	102,731	107	117
1958.....	2,850	927	162,228	721,348	124,704	241,746	491,809	¹ 1,769,269	114,974	100	100

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. ¹Revised. (X) Not applicable.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for plants under construction but not in operation.

⁴The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

KENTUCKY

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
KENTUCKY, TOTAL.....	2,886	1,001	181,600	963,329	140,610	279,561	657,429	2,460,058	226,342	162,228	1,769,269
STANDARD METROPOLITAN STATISTICAL AREAS											
Cincinnati ⁴	1,920	766	152,623	965,009	100,463	207,117	555,623	2,007,160	77,912	156,478	1,555,328
Portion in Ohio.....	1,708	700	141,279	900,398	91,633	189,099	509,609	1,826,787	72,631	145,526	1,428,687
Portion in Kentucky.....	179	55	7,505	42,700	5,732	11,747	29,226	80,761	3,080	7,663	70,360
Portion in Indiana.....	33	11	3,839	21,911	3,098	6,271	16,788	99,612	2,201	3,289	56,281
Evansville ⁵	296	120	27,279	155,711	19,249	38,277	95,521	348,342	27,229	27,083	275,310
Portion in Indiana.....	240	94	24,850	146,143	17,222	34,311	88,392	327,505	(D)	24,909	261,745
Portion in Kentucky.....	56	26	2,429	9,568	2,027	3,966	7,129	20,837	(D)	2,174	13,565
Huntington-Ashland ⁶	263	111	24,252	146,984	18,905	37,679	104,816	317,411	99,179	22,814	244,042
Portion in Ohio.....	44	19	4,134	25,178	3,386	6,722	19,673	71,116	(D)	4,317	50,423
Portion in West Virginia.....	180	76	13,331	73,627	10,720	21,631	53,509	149,481	(D)	12,336	113,764
Portion in Kentucky.....	39	16	6,587	46,179	4,799	9,326	31,634	96,814	(D)	6,161	79,855
Lexington ⁷	142	61	10,889	65,523	7,337	15,582	37,161	156,569	9,586	7,798	77,342
Louisville ⁸	873	403	88,441	546,161	65,220	132,142	361,686	1,552,121	72,898	86,653	1,161,445
Portion in Indiana.....	135	64	10,027	51,481	8,261	16,829	38,097	152,275	5,945	8,153	100,351
Portion in Kentucky.....	738	339	78,414	494,680	56,939	115,313	323,389	1,400,846	66,953	78,500	1,061,094
COUNTIES ¹											
Adair.....	14	2	255	546	238	423	498	1,525	(Z)	95	315
Allen.....	19	6	811	1,906	726	1,303	1,739	3,322	(Z)	540	1,425
Anderson.....	9	5	456	2,373	372	797	1,748	5,694	793	537	3,408
Barren.....	22	11	1,198	3,667	1,079	1,936	3,071	4,836	(Z)	972	2,600
Bell.....	34	10	758	2,646	618	1,283	1,975	5,467	(Z)	650	4,599
Boone.....	12	4	277	1,222	236	553	907	2,490	(Z)	63	323
Bourbon.....	20	5	729	2,718	606	1,052	1,964	4,882	(Z)	799	4,474
Boyd.....	39	16	6,587	46,179	4,799	9,326	31,634	96,814	(D)	6,161	79,855
Boyle.....	25	12	1,978	7,705	1,707	3,337	6,068	13,963	754	1,564	11,042
Caldwell.....	16	4	732	2,233	685	1,317	1,973	4,562	(Z)	495	1,870
Calloway.....	27	3	1,075	4,869	919	1,728	3,744	10,200	(Z)	974	7,810
Campbell.....	65	17	3,225	19,896	2,467	4,954	14,122	41,983	1,357	3,861	37,550
Carroll.....	9	5	507	1,985	449	886	1,496	3,345	(Z)	401	2,492
Carter.....	16	5	593	2,686	552	1,063	2,408	3,215	(Z)	748	5,302
Casey.....	18	3	282	629	247	413	548	824	(Z)	111	266
Christian.....	44	17	2,393	8,995	1,949	3,874	6,234	22,412	620	1,867	13,161
Clerk.....	23	8	1,425	5,447	1,178	2,215	3,880	11,727	(Z)	1,115	7,947
Crittenden.....	12	3	350	1,215	315	602	1,014	3,772	(Z)	180	1,445
Daviess.....	84	33	9,313	46,987	7,519	14,790	33,604	87,861	3,759	7,582	70,068
Fayette.....	142	61	10,889	65,523	7,337	15,582	37,161	156,569	9,586	7,798	77,342
Fleming.....	13	2	378	1,300	346	769	1,139	1,929	669	45	95
Franklin.....	23	9	2,004	9,316	1,684	3,190	6,911	19,333	718	2,138	12,229
Fulton.....	16	5	556	1,629	495	1,105	1,332	3,133	(Z)	561	2,549
Graves.....	46	12	3,084	11,099	2,658	4,867	8,454	34,129	916	2,806	13,761
Graysan.....	18	6	511	1,291	457	774	1,035	2,172	(Z)	315	958
Greenup.....	13	4	312	1,880	228	472	1,346	6,378	2,488	251	2,314
Hardin.....	26	7	630	2,447	529	1,133	1,846	5,618	2,471	329	2,767
Harlan.....	26	8	465	1,885	301	623	1,008	4,112	(Z)	445	2,436
Harrison.....	14	8	978	4,610	808	1,703	3,445	6,430	(Z)	578	3,422
Hart.....	8	3	263	744	225	410	533	3,092	(Z)	154	843
Hendersom.....	56	26	2,429	9,568	2,027	3,966	7,129	20,837	(D)	2,174	13,565
Hopkins.....	37	8	745	2,505	618	1,184	1,884	3,529	(Z)	718	3,051
Jefferson.....	738	339	78,414	494,680	56,939	115,313	323,389	1,400,846	66,953	78,500	1,061,094
Jessamine.....	9	2	281	945	257	497	790	2,425	(Z)	117	465
Kenton.....	102	34	4,003	21,582	3,029	6,240	14,197	36,288	1,622	3,729	32,487
Knox.....	18	6	716	2,760	607	1,206	1,950	4,086	(Z)	320	1,555
Laurel.....	32	6	601	2,178	424	840	1,202	5,927	550	408	2,766
Lincoln.....	11	2	501	1,562	474	928	1,447	3,141	(Z)	87	418
Logan.....	30	16	1,805	6,233	1,596	3,066	5,069	14,420	1,666	952	5,420
McCracken.....	58	21	4,428	22,170	3,329	6,419	14,434	51,941	3,177	4,881	45,127
McLean.....	12	6	333	1,101	293	600	931	1,827	(Z)	272	1,100
Madison.....	25	7	1,480	6,067	1,282	2,666	5,052	14,666	690	853	8,178
Marshall.....	16	8	2,141	14,948	1,608	3,325	10,836	63,472	24,438	1,562	40,966
Mason.....	14	10	1,738	9,009	1,428	2,577	6,420	24,758	2,137	1,774	19,026
Mercer.....	15	4	1,124	4,291	1,000	1,789	3,555	10,458	(Z)	777	6,454
Monroe.....	16	6	528	1,230	500	910	1,127	1,687	(Z)	227	794
Montgomery.....	12	3	688	2,218	619	1,177	1,876	2,669	(Z)	533	3,608
Muhlenberg.....	28	6	310	876	258	523	716	1,669	(Z)	450	2,197
Nelson.....	22	10	1,084	6,155	867	1,664	3,958	20,883	527	1,174	12,775

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Ohio.....	19	5	298	852	255	468	616	1,187	(Z)	174	497
Pulaski.....	53	12	1,400	4,394	1,220	2,209	3,356	8,854	815	1,144	6,076
Rowan.....	21	8	665	2,282	577	1,101	1,840	4,253	(Z)	559	2,820
Russell.....	9	3	318	818	279	533	696	895	(Z)	113	370
Scott.....	18	11	1,560	6,162	1,277	2,575	4,380	14,434	599	567	2,597
Shelby.....	22	10	521	2,527	396	937	1,645	3,790	(Z)	374	2,251
Simpson.....	19	9	1,444	5,589	1,270	2,627	4,520	16,496	(Z)	571	5,479
Todd.....	12	3	334	918	308	583	808	1,601	(Z)	306	1,049
Union.....	17	3	297	794	278	510	725	3,368	(Z)	221	1,158
Warren.....	54	17	3,123	11,345	2,519	4,872	8,270	30,321	955	2,973	24,924
Washington.....	8	3	516	1,563	479	918	1,334	2,537	(Z)	395	1,710
Wayne.....	25	5	706	1,727	673	1,271	1,597	3,472	(Z)	486	1,635
Webster.....	13	3	425	1,106	412	782	1,071	2,248	(Z)	345	1,094
Whitley.....	27	4	449	1,290	365	725	1,080	2,188	(Z)	377	1,372

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Cincinnati Standard Metropolitan Statistical Area consists of Clermont, Hamilton, and Warren Counties, Ohio, Boone, Campbell and Kenton Counties, Ky., and Dearborn County, Ind.⁵The Evansville Standard Metropolitan Statistical Area consists of Vanderburgh and Warwick Counties, Ind., and Henderson County, Ky.⁶The Huntington-Ashland Standard Metropolitan Statistical Area consists of Cabell and Wayne Counties, W. Va., Boyd County, Ky., and Lawrence County, Ohio.⁷The Lexington Standard Metropolitan Statistical Area is coextensive with Fayette County, Ky.⁸The Louisville Standard Metropolitan Statistical Area consists of Jefferson County, Ky., and Clark and Floyd Counties, Ind.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,886	1,001	181,600	963,329	140,610	279,561	657,429	2,460,058	226,342	162,228	r1,769,269
20	Food and kindred products.....	503	220	23,967	128,144	15,763	32,182	76,281	364,022	16,456	27,198	r350,434
201	Meat products.....	94	26	3,323	18,354	2,530	5,371	12,575	29,858	3,968	3,156	28,367
202	Dairies.....	98	59	3,925	18,621	1,908	3,949	8,268	49,721	2,269	4,745	43,388
204	Grain mill products.....	62	17	1,215	5,381	897	2,116	3,585	20,102	947	1,497	r16,345
208	Beverages.....	126	75	10,171	57,989	7,123	13,747	37,406	198,403	7,028	11,629	r204,690
209	Miscellaneous foods and kindred products.....	54	11	1,674	9,351	1,040	2,275	4,878	28,000	1,148	1,732	20,921
21	Tobacco manufactures.....	34	27	10,017	50,540	8,964	18,996	43,271	272,475	(D)	10,284	235,384
22	Textile mill products.....	20	15	4,752	14,926	4,468	7,856	12,792	35,439	840	r3,933	r23,607
225	Knitting mills.....	9	7	3,858	11,700	3,669	6,733	10,318	27,771	(Z)	r3,043	r19,061
23	Apparel and related products....	125	96	19,825	57,529	18,491	34,018	49,342	92,075	1,406	r16,614	r58,822
232	Men's and boys' furnishings....	54	50	11,417	31,750	10,771	19,681	27,528	50,565	727	r9,069	r30,602
233	Women's and misses' outerwear.....	20	10	1,977	5,595	1,845	3,344	4,972	7,731	(Z)	1,379	3,818
239	Fabricated textiles, n.e.c....	33	10	1,308	4,346	1,113	2,233	3,376	8,705	(Z)	954	3,260
24	Lumber and wood products.....	648	113	8,591	26,347	7,374	14,022	21,121	43,980	4,177	8,921	39,173
242	Sawmills and planing mills....	446	71	5,351	14,262	4,623	8,795	11,985	24,183	3,062	5,410	18,076
243	Millwork and related products....	37	14	1,014	4,861	799	1,621	3,152	8,354	(Z)	1,184	7,556
249	Miscellaneous wood products....	46	16	770	2,285	691	1,341	1,898	4,304	(Z)	707	5,731
25	Furniture and fixtures.....	102	47	5,362	21,549	4,613	9,257	16,714	34,266	984	4,708	28,120
251	Household furniture.....	74	36	4,725	19,122	4,076	8,215	14,842	30,048	820	4,442	26,594

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
26	Paper and allied products.....	29	21	3,635	16,433	2,977	6,046	11,744	29,674	1,700	2,016	13,794
265	Paperboard containers and boxes.....	19	15	1,788	9,513	1,394	2,873	6,478	18,028	924	1,070	8,067
27	Printing and publishing.....	375	68	8,347	49,695	6,281	12,209	33,035	77,923	5,443	7,982	61,572
271	Newspapers.....	144	20	3,016	17,313	1,512	3,028	7,944	29,423	1,022	2,935	23,856
273	Books.....	10	2	485	1,783	397	794	1,356	2,479	604	390	1,913
275	Commercial printing.....	164	35	4,349	25,867	3,608	6,896	20,533	37,067	3,344	4,008	30,628
28	Chemicals and allied products...	107	52	11,313	81,893	7,524	15,496	50,046	272,614	50,548	9,794	203,248
281	Basic chemicals.....	24	18	4,885	34,346	3,257	6,727	21,409	124,069	32,993	4,268	87,649
285	Paints and allied products....	23	13	1,458	10,467	800	1,754	4,772	32,807	3,078	1,530	24,380
29	Petroleum and coal products.....	20	4	895	6,289	594	1,159	3,936	29,523	3,857	1,060	25,756
30	Rubber and plastics products, n.e.c.											
307	Plastics products, n.e.c.....	17	7	879	3,806	718	1,504	2,755	8,276	929	677	4,931
31	Leather and leather products....	17	11	2,695	9,241	2,538	4,932	8,398	18,048	518	2,282	13,335
32	Stone, clay and glass products..	237	52	6,390	32,490	5,064	10,519	23,362	68,843	7,806	5,443	47,081
325	Structural clay products.....	19	16	1,374	6,802	1,220	2,491	5,650	11,525	1,477	1,449	9,603
327	Concrete and plaster products..	174	21	1,952	8,637	1,308	2,717	4,909	19,562	1,995	1,477	11,416
329	Nonmetallic mineral products..	12	4	840	5,466	631	1,335	3,712	10,730	2,111	958	8,902
33	Primary metal industries.....	32	24	9,267	64,508	7,690	15,273	50,479	132,114	(D)	8,087	98,437
331	Steel rolling and finishing...	9	9	7,493	53,718	6,351	12,568	43,258	113,642	(D)	6,273	81,377
34	Fabricated metal products.....	199	94	12,385	71,604	9,506	19,326	50,242	141,734	13,892	12,263	106,419
342	Cutlery, hand tools, hardware..	14	6	591	3,437	392	759	1,896	6,788	(Z)	464	5,129
344	Structural metal products.....	100	38	2,928	15,496	2,082	4,327	10,020	21,041	6,967	3,222	27,442
346	Metal stampings.....	15	13	1,273	7,333	1,015	2,047	5,006	12,045	594	1,432	9,234
348	Fabricated wire products, n.e.c.....	10	4	699	3,555	550	1,132	2,059	9,970	(Z)	351	2,182
349	Fabricated metal products, n.e.c.....	27	18	3,870	23,597	3,032	6,179	17,293	55,366	4,150	2,627	30,662
35	Machinery, except electrical....	207	62	16,481	108,686	12,429	24,477	72,248	229,562	12,334	12,680	132,629
353	Construction and like equipment.....	24	10	1,306	7,706	905	1,854	4,732	13,999	(Z)	919	7,330
354	Metalworking machinery.....	34	10	757	4,440	631	1,388	3,535	7,236	(Z)	555	5,516
356	General industrial machinery..	23	7	1,758	11,557	1,485	3,044	8,849	31,249	2,325	1,248	19,937
358	Service industry machines.....	13	7	2,364	14,823	1,855	3,749	10,205	38,235	643	1,784	18,120
359	Miscellaneous machinery.....	69	7	1,736	7,995	1,502	2,918	6,525	17,899	751	1,643	14,288
36	Electrical machinery.....	61	39	21,361	120,396	17,931	35,346	89,215	351,803	10,086	17,132	238,268
37	Transportation equipment.....	39	22	5,559	39,323	4,472	10,331	29,479	206,893	4,763	4,594	71,593
39	Miscellaneous manufacturing....	86	16	1,756	8,250	1,443	2,929	5,913	15,379	862	1,442	10,120
398	Miscellaneous manufactures....	55	10	706	3,029	594	1,201	2,255	5,526	(Z)	660	3,914
399												
190												
--	Administrative and auxiliary ³ ...	-	-	5,492	42,071	-	-	-	-	-	4,489	-

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

¹Includes expenditures for plants under construction but not in operation.

²The "All Industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR THE STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-houra (1,000)	Wagea (\$1,000)				
LOUISVILLE SMSA (Consists of Jefferson County, Ky., and Clark and Floyd Counties, Ind.)												
	All industries, total ²	873	403	88,441	546,161	65,220	132,142	361,686	1,553,121	72,898	86,653	1,161,445
20	Food and kindred products.....	131	74	12,041	70,659	7,788	16,079	42,385	215,516	10,089	14,003	195,140
202	Dairies.....	24	15	1,232	6,616	357	762	1,850	11,740	620	1,982	16,369
203	Canned and frozen foods.....	10	3	427	2,064	292	601	966	7,412	(Z)	917	11,970
204	Grain mill products.....	7	6	934	5,100	770	1,640	4,017	28,266	1,030	694	10,545
205	Bakery products.....	24	15	1,863	9,809	1,136	2,302	5,388	16,378	(Z)	1,850	14,104
208	Beverages.....	24	21	4,465	26,823	3,113	6,047	17,678	111,999	3,335	5,215	110,815
209	Miscellaneous foods and kindred products.....	26	9	1,361	7,934	817	1,778	3,982	21,932	973	1,213	12,823
21	Tobacco manufactures.....	7	7	7,619	39,688	6,947	14,135	35,145	248,533	(D)	8,013	223,215
22	Textile mill products.....	5	3	431	1,642	385	745	1,261	3,054	(Z)	573	2,910
23	Apparel and related products....	24	11	2,501	9,317	2,247	4,255	6,995	15,187	(Z)	2,318	8,478
239	Fabricated textiles, n.e.c....	12	2	380	1,321	329	636	1,023	2,258	(Z)	360	1,867
24	Lumber and wood products.....	69	34	3,732	18,052	3,195	6,605	13,443	27,773	924	4,477	29,327
243	Millwork and related products....	36	18	2,124	10,828	1,791	3,890	7,665	18,413	649	2,275	15,370
244	Wooden containers.....	7	6	702	3,384	623	1,128	2,746	4,405	(Z)	1,152	6,098
25	Furniture and fixtures.....	51	24	3,519	16,504	3,085	6,304	13,123	27,213	1,616	3,016	19,557
251	Household furniture.....	38	21	3,368	15,902	2,963	6,064	12,665	26,133	1,572	2,904	18,902
26	Paper and allied products.....	24	16	1,530	8,188	1,220	2,529	5,334	14,515	(Z)	1,104	7,608
27	Printing and publishing.....	141	39	6,010	37,106	4,442	8,522	25,214	54,409	4,206	5,659	44,598
275	Commercial printing.....	87	27	3,729	22,940	3,095	5,853	18,156	33,048	3,077	3,538	27,551
28	Chemicals and allied products...	64	34	8,531	61,943	5,784	11,741	38,468	223,958	18,042	8,229	185,237
281	Basic chemicals.....	13	8	1,302	7,950	879	1,855	5,174	23,719	2,253	997	19,425
287	Agricultural chemicals.....	9	7	387	1,728	285	562	1,153	4,467	(Z)	466	3,417
32	Stone, clay and glass products...	49	19	2,359	14,034	1,704	3,450	9,233	37,156	3,529	2,465	27,115
327	Concrete and plaster products....	32	11	635	3,532	351	711	1,663	6,718	(Z)	487	4,699
34	Fabricated metal products.....	92	57	8,936	54,759	6,756	13,560	38,592	108,446	11,593	9,969	87,599
344	Structural metal products.....	42	22	1,406	7,824	973	2,032	4,895	8,483	6,454	1,893	15,056
346	Metal stampings.....	7	6	870	5,282	666	1,193	3,453	8,759	(Z)	957	6,261
349	Fabricated metal products, n.e.c.....	18	3	3,429	21,657	2,625	5,339	15,676	52,520	3,402	2,369	29,172
35	Machinery, except electrical....	99	42	9,966	63,159	7,941	15,307	46,406	118,434	3,288	7,423	74,113
353	Construction and like equipment.....	15	8	1,222	7,329	841	1,725	4,464	13,453	(Z)	799	6,413
355	Special industry machinery....	20	11	779	5,192	508	1,017	3,010	10,850	(Z)	361	3,693
358	Service industry machines....	11	5	2,127	13,422	1,683	3,366	9,470	35,366	586	1,655	15,464
39	Miscellaneous manufacturing, including ordnance ³	36	6	1,685	8,868	1,366	2,787	6,784	12,570	(Z)	1,097	8,828
--	Administrative and auxiliary ⁴ ...	-	4,205	33,702	-	-	-	-	-	-	3,464	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES

MC63(P)-S19



**preliminary
report**

Area series

LOUISIANA

Value added by manufacturing in 1963 in the State of Louisiana amounted to \$1,918 million, an increase of 16 percent from 1962 and 34 percent from 1958. Of this total, \$430 million was contributed by the chemicals and allied products industries and \$375 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufac- ture (\$1,000)	Capital expend- itures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employ- ees, number	Value added by manufac- ture
1963.....	3,193	953	139,852	770,997	104,719	215,851	526,395	1,917,824	180,313	102	134
1962 ³	(NA)	(NA)	130,371	677,240	98,412	202,776	461,150	1,647,368	147,245	95	115
1961 ³	(NA)	(NA)	129,037	650,948	96,973	199,584	442,210	1,592,046	165,570	94	111
1960 ³	(NA)	(NA)	133,311	562,918	100,393	205,189	441,460	1,573,823	138,877	97	110
1959 ³	(NA)	(NA)	135,421	646,501	103,615	212,130	440,333	1,566,670	140,063	99	109
1958.....	3,125	935	136,944	621,397	103,519	205,887	426,345	1,429,580	173,383	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS,



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

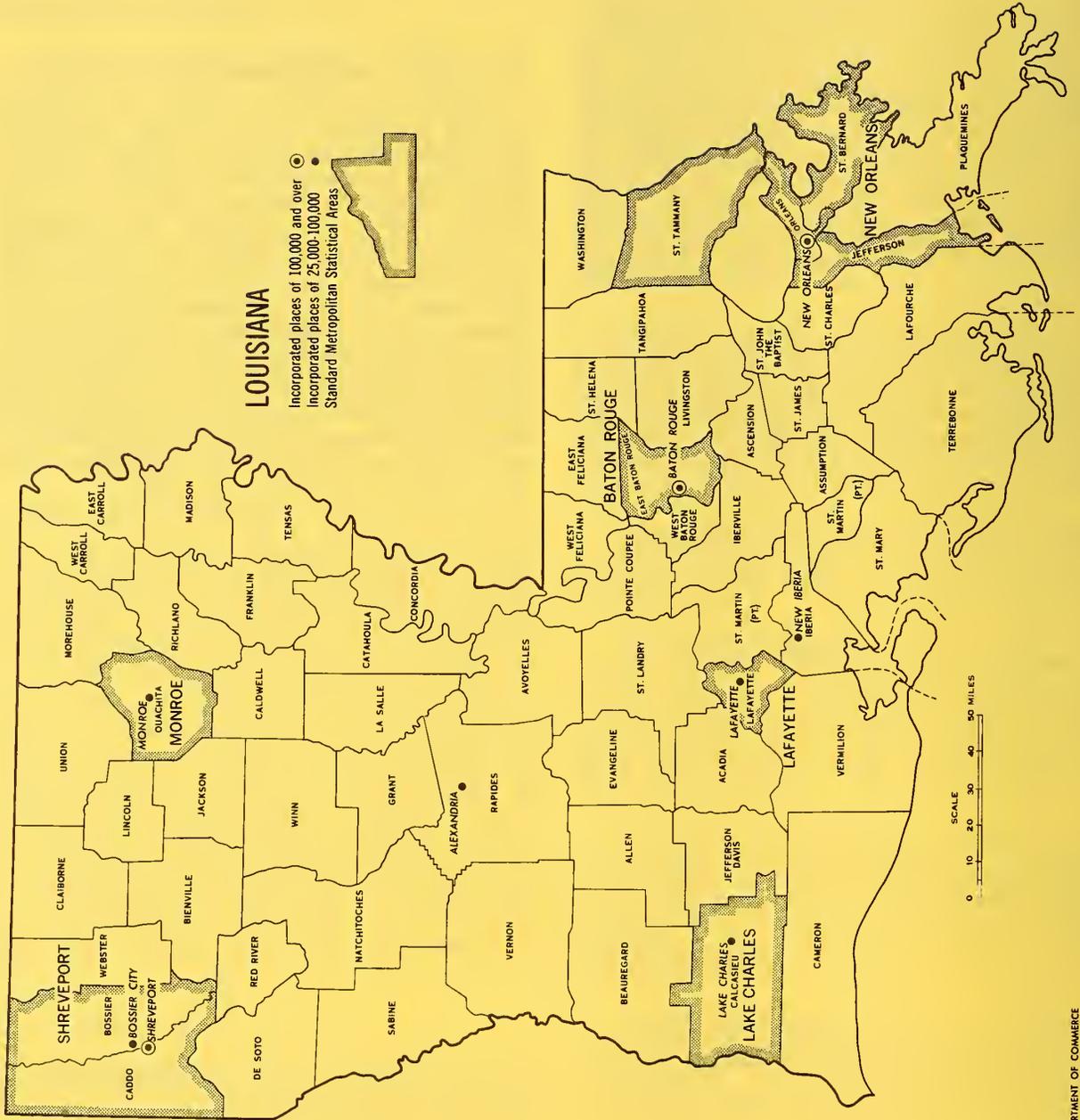


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND PARISHES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and parishes ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
LOUISIANA, TOTAL.....	3,193	953	139,852	770,997	104,719	215,851	526,395	1,917,824	180,313	136,944	1,429,580
STANDARD METROPOLITAN STATISTICAL AREAS											
Baton Rouge ⁴	168	67	15,390	115,141	9,695	19,689	66,208	357,333	27,036	19,035	298,249
Lafayette ⁵	72	20	1,792	8,148	1,158	2,411	4,198	15,568	749	1,675	12,531
Lake Charles ⁶	94	34	7,861	53,486	5,224	10,747	33,140	151,710	19,693	7,901	121,782
Monroe ⁷	129	32	5,744	30,553	4,263	8,515	20,637	65,924	6,507	5,971	54,706
New Orleans ⁸	904	304	48,961	282,572	36,389	74,778	193,041	627,018	31,030	46,922	474,762
Shreveport ⁹	289	90	9,163	45,812	6,589	13,659	30,965	92,748	5,388	9,112	87,065
PARISHES ¹											
Acadia.....	45	13	731	2,747	561	1,222	1,878	6,358	(Z)	972	9,261
Allen.....	20	7	1,658	7,247	1,338	2,902	5,904	13,941	1,676	1,796	15,358
Ascension.....	31	14	1,416	8,313	1,059	2,228	5,240	44,357	15,040	633	3,186
Assumption.....	16	7	794	3,751	580	1,200	2,850	17,462	568	808	5,386
Avoyelles.....	26	4	450	1,629	411	820	1,422	3,694	(Z)	477	3,115
Beauregard.....	36	3	703	2,601	597	1,236	1,950	3,355	(Z)	769	4,705
Bienville.....	27	5	800	2,606	739	1,342	2,272	5,346	849	742	3,464
Bossier.....	64	12	1,008	3,794	832	1,660	2,794	8,390	552	1,485	18,216
Caddo.....	225	78	8,155	42,018	5,757	11,999	28,171	84,358	4,836	7,627	68,849
Calcasieu.....	94	34	7,861	53,486	5,224	10,747	33,140	151,710	19,693	7,901	121,782
Claiborne.....	27	4	544	1,565	436	847	1,153	2,749	(Z)	305	1,860
Concordia.....	12	5	287	916	241	497	689	1,521	(Z)	205	966
De Soto.....	26	8	1,077	4,595	951	2,020	3,579	8,207	(Z)	1,098	7,594
East Baton Rouge.....	168	67	15,390	115,141	9,695	19,689	66,208	357,333	27,036	19,035	298,249
Evangeline.....	17	2	250	1,131	196	420	805	4,366	(Z)	255	3,303
Franklin.....	9	3	365	1,026	314	603	834	1,746	(Z)	141	1,784
Iberia.....	54	22	1,682	6,586	1,197	2,732	4,085	17,088	1,625	1,320	10,411
Iberville.....	30	8	1,102	6,874	772	1,652	4,255	39,809	(D)	944	9,164
Jefferson.....	197	74	12,426	72,666	9,716	21,355	54,467	144,086	11,945	11,929	122,884
Lafayette.....	72	20	1,792	8,148	1,158	2,411	4,198	15,568	749	1,675	12,531
La Fourche.....	54	16	1,666	7,675	1,347	3,074	5,987	21,195	1,462	1,301	10,029
La Salle.....	19	6	629	2,017	566	1,274	1,814	4,033	(Z)	797	4,236
Lincoln.....	36	7	564	1,899	439	854	1,255	3,756	(Z)	590	2,346
Livingston.....	48	5	375	985	326	652	831	1,559	(Z)	455	1,736
Madison.....	10	2	428	1,571	357	868	1,263	2,067	(Z)	531	2,361
Natchitoches.....	34	5	262	776	178	393	494	1,335	(Z)	274	937
Orleans.....	638	210	31,134	175,656	22,169	44,236	111,994	372,121	12,637	29,516	246,585
Ouachita.....	129	32	5,744	30,553	4,263	8,515	20,637	65,924	6,507	5,971	54,706
Flaquemines.....	20	8	723	3,661	575	1,216	2,585	15,390	1,942	791	9,343
Pointe Coupee.....	19	5	296	849	249	536	710	1,926	(Z)	397	1,364
Rapides.....	90	32	3,451	13,516	2,612	5,703	9,445	26,303	2,114	3,829	19,042
Sabine.....	39	5	642	1,792	571	1,071	1,550	2,564	790	709	2,627
St. Bernard.....	24	9	4,153	28,319	3,390	6,768	21,758	99,857	5,472	4,106	97,445
St. James.....	12	7	1,316	9,033	1,082	2,528	6,849	23,753	2,332	876	7,174
St. Landry.....	53	13	820	2,971	650	1,316	2,139	8,515	540	825	4,046
St. Martin.....	19	6	429	1,255	336	662	923	3,860	1,005	320	1,275
St. Mary.....	60	28	2,030	9,124	1,688	3,786	7,035	30,939	1,685	1,393	19,610
St. Tammany.....	45	11	1,248	5,931	1,114	2,369	4,822	10,954	776	1,371	7,848
Tangipahoa.....	88	27	2,119	6,079	1,776	3,428	4,722	14,632	1,067	1,882	8,617
Terrebonne.....	64	21	1,795	7,353	1,516	2,889	5,774	14,898	750	1,340	9,116
Union.....	41	7	322	877	286	589	761	1,864	(Z)	384	1,562
Vermilion.....	35	9	784	3,274	543	1,197	1,703	7,097	(Z)	642	2,947
Webster.....	71	16	5,722	29,730	4,809	9,733	23,640	61,121	3,261	3,715	46,828
West Feliciana.....	10	5	1,147	4,840	1,088	2,017	4,170	20,166	1,246	481	2,497
Winn.....	46	9	1,016	3,909	921	2,091	3,410	7,100	871	802	4,609

(Z) Less than \$500 thousand. [†]Revised.¹Some parishes were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller parishes. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Baton Rouge Standard Metropolitan Statistical Area is coextensive with East Baton Rouge Parish, La.⁵The Lafayette Standard Metropolitan Statistical Area is coextensive with Lafayette Parish, La.⁶The Lake Charles Standard Metropolitan Statistical Area is coextensive with Calcasieu Parish, La.⁷The Monroe Standard Metropolitan Statistical Area is coextensive with Ouachita Parish, La.⁸The New Orleans Standard Metropolitan Statistical Area consists of Jefferson, Orleans, St. Bernard and St. Tammany Parishes, La.⁹The Shreveport Standard Metropolitan Statistical Area consists of Bossier and Caddo Parishes, La.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	3,193	953	139,852	770,997	104,719	215,851	526,395	1,917,824	180,313	136,944	1,429,580
20	Food and kindred products.....	690	315	29,519	130,607	19,698	41,445	76,376	374,536	29,273	30,316	276,700
201	Meat products.....	96	24	2,434	8,857	1,933	3,766	5,814	21,878	785	2,367	16,341
202	Dairies.....	77	36	2,772	13,763	1,028	2,364	4,455	36,886	1,717	3,114	26,956
203	Canned and frozen foods.....	91	49	4,594	11,832	3,929	6,263	8,310	33,814	1,229	3,677	16,377
206	Sugar.....	52	49	5,543	31,660	4,685	11,178	25,477	94,108	10,095	6,247	57,370
207	Candy and related products..	11	4	381	1,194	313	629	721	1,838	(Z)	368	2,155
208	Beverages.....	88	47	4,355	21,386	2,170	4,511	10,436	58,719	8,067	4,660	56,280
209	Miscellaneous foods and kindred products.....	142	45	3,654	16,334	2,466	5,343	9,530	70,298	3,474	3,507	46,207
23	Apparel and related products...	68	37	5,821	17,175	5,105	9,183	12,914	32,876	(Z)	5,534	23,577
232	Men's and boys' furnishings...	20	17	3,155	8,312	2,839	5,095	6,664	17,279	(Z)	2,623	12,115
239	Fabricated textiles, n.e.c....	25	10	873	2,971	760	1,426	2,203	5,576	(Z)	1,041	3,869
24	Lumber and wood products.....	822	157	14,965	46,469	13,284	26,961	39,504	75,916	9,157	17,080	67,839
243	Millwork and related products	61	22	1,394	4,973	1,205	2,378	3,867	8,166	704	1,746	8,262
25	Furniture and fixtures.....	74	17	1,248	4,259	1,068	2,142	3,304	8,406	(Z)	1,399	7,482
251	Household furniture.....	50	14	1,011	3,441	890	1,803	2,715	7,109	(Z)	1,136	5,873
26	Paper and allied products.....	50	41	15,485	91,928	12,697	25,991	73,557	196,487	26,241	16,871	185,595
264	Paper and paperboard products	18	15	2,824	14,380	2,468	4,961	11,791	22,613	1,712	2,654	25,176
265	Paperboard containers and boxes.....	18	13	2,234	12,769	1,822	3,855	9,188	20,600	1,097	2,601	16,204
27	Printing and publishing.....	369	52	5,370	26,711	3,356	6,634	16,906	56,255	1,771	5,276	47,726
271	Newspapers.....	106	21	3,263	16,160	1,831	3,523	9,391	37,646	888	3,217	32,665
275	Commercial printing.....	178	23	1,609	8,046	1,211	2,470	5,842	12,960	725	1,583	10,849
28	Chemicals and allied products..	182	68	15,695	117,518	11,135	23,218	77,284	429,608	67,905	16,240	310,264
281	Basic chemicals.....	37	17	10,931	86,997	7,612	15,848	56,538	309,159	54,594	11,611	231,089
282	Fibers, plastics, rubbers....	9	7	2,159	16,262	1,567	3,241	10,992	71,819	10,450	1,702	36,778
287	Agricultural chemicals.....	23	4	439	1,936	318	637	1,139	6,068	1,039	503	3,161
289	Miscellaneous chemical products.....	33	8	1,060	6,719	858	1,918	5,144	29,696	1,292	1,143	23,556
29	Petroleum and coal products....	47	27	11,105	87,525	6,868	13,537	48,654	272,455	27,573	14,287	201,867
291	Petroleum refining.....	23	17	10,026	81,492	6,027	11,762	44,285	258,043	27,028	13,123	190,281
295	Paving and roofing materials.	18	7	690	3,491	564	1,153	2,701	7,638	(Z)	769	6,293
299	Petroleum and coal products, n.e.c.....	6	3	389	2,542	277	622	1,668	6,774	(Z)	395	4,593
32	Stone, clay and glass products.	201	61	6,563	35,484	5,158	10,876	26,539	90,733	4,860	6,605	70,532
327	Concrete and plaster products	161	38	2,875	13,005	2,083	4,570	8,713	34,736	3,090	2,772	28,618
329	Nonmetallic mineral products.	15	9	1,114	6,401	915	1,898	4,990	18,249	729	1,329	13,483
33	Primary metal industries.....	23	13	3,877	25,229	3,249	6,613	19,551	85,966	3,257	3,550	84,460
34	Fabricated metal products.....	191	55	7,243	41,599	5,652	11,910	30,327	77,674	4,153	5,892	52,491
344	Structural metal products....	144	38	4,075	22,656	3,067	6,508	15,557	43,167	2,040	3,705	26,868
349	Fabricated metal products, n.e.c.....	15	8	1,145	6,214	832	1,751	4,372	13,114	(Z)	629	7,175
35	Machinery, except electrical...	200	44	3,844	20,857	2,916	6,208	14,655	37,621	1,776	3,082	25,228
352	Farm machinery and equipment.	11	4	515	2,407	337	799	1,557	4,266	(Z)	305	2,123
355	Special industry machinery...	13	7	594	2,995	474	997	2,121	6,570	(Z)	394	3,622
358	Service industry machines....	16	3	256	1,325	182	409	834	3,094	(Z)	142	1,239
359	Miscellaneous machinery.....	113	13	1,088	6,016	842	1,766	4,553	9,793	522	977	7,372
36	Electrical machinery.....	32	4	264	1,195	204	412	788	2,443	(Z)	158	1,199
37	Transportation equipment.....	114	36	11,335	77,994	10,008	21,978	67,672	114,072	2,964	6,987	49,437
371	Motor vehicles and equipment.	16	6	548	2,748	444	952	1,936	4,298	(Z)	458	4,490
373	Ship and boat building.....	91	27	8,046	49,513	7,058	15,734	42,355	71,220	2,479	6,465	44,831
38	Instruments and related products	18	5	481	2,358	298	632	1,188	4,984	(Z)	194	1,665
39	Miscellaneous manufacturing, including ordnance ³	84	11	5,440	34,790	3,344	6,789	14,917	47,127	(Z)	1,484	11,271
--	Administrative and auxiliary ⁴ ..	-	-	796	6,330	-	-	-	-	-	567	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW ORLEANS SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	904	304	48,961	282,572	36,389	74,778	193,041	627,018	31,030	^r 46,922	^r 474,762
20	Food and kindred products.....	192	87	11,122	53,503	6,900	13,733	29,495	159,181	12,521	12,252	127,764
201	Meat products.....	8	4	650	2,634	457	902	1,361	4,390	(Z)	756	5,505
202	Dairies.....	27	8	933	5,087	356	850	1,635	12,512	655	1,140	11,248
203	Canned and frozen foods.....	31	15	1,654	4,894	1,307	1,932	2,876	15,031	(Z)	1,563	7,149
205	Bakery products.....	35	17	1,631	6,566	871	1,786	3,147	12,803	603	2,148	12,863
208	Beverages.....	25	15	2,740	15,380	1,585	3,279	8,893	45,587	7,026	2,376	31,533
209	Miscellaneous foods and kindred products.....	50	21	2,135	10,385	1,297	2,747	5,533	50,213	2,072	2,154	35,214
23	Apparel and related products....	47	25	4,315	13,342	3,678	6,652	9,408	26,464	(Z)	4,443	20,207
232	Men's and boys' furnishings....	10	8	1,903	5,230	1,637	2,989	3,761	12,158	(Z)	1,850	9,613
239	Fabricated textiles, n.e.c....	18	9	831	2,827	719	1,344	2,062	5,376	(Z)	917	3,699
24	Lumber and wood products.....	52	11	790	3,143	647	1,340	2,357	4,556	(Z)	1,509	7,435
243	Millwork and related products..	22	6	379	1,586	306	610	1,183	3,372	(Z)	448	2,308
25	Furniture and fixtures.....	33	9	501	1,691	406	767	1,228	2,740	(Z)	694	3,463
251	Household furniture.....	20	7	340	1,152	290	554	853	1,860	(Z)	564	2,661
26	Paper and allied products.....	19	13	2,164	11,444	1,797	3,747	8,916	21,407	959	3,447	37,239
265	Paperboard containers and boxes.....	11	7	614	2,858	481	997	1,966	3,471	(Z)	756	4,849
27	Printing and publishing.....	156	20	2,285	12,656	1,410	2,779	7,747	28,107	830	2,365	23,743
275	Commercial printing.....	92	11	824	4,404	653	1,329	3,316	7,139	519	774	5,167
28	Chemicals and allied products...	62	14	1,467	9,120	906	1,839	4,985	28,760	4,316	2,039	23,670
281	Basic chemicals.....	17	7	810	5,974	503	1,054	3,432	20,216	(D)	1,273	15,756
29	Petroleum and coal products.....	14	10	1,218	7,807	909	1,919	5,561	21,505	1,588	1,184	12,265
32	Stone, clay and glass products..	54	28	3,441	19,359	2,783	5,978	14,539	53,232	2,177	3,366	38,683
327	Concrete and plaster products...	32	14	1,117	5,918	878	2,012	4,302	16,922	1,137	1,018	14,172
329	Nonmetallic mineral products..	10	9	1,088	6,279	895	1,858	4,903	17,638	696	1,206	12,573
34	Fabricated metal products.....	86	30	3,785	23,501	3,074	6,431	18,024	44,934	2,307	3,270	34,171
344	Structural metal products.....	59	16	1,405	7,589	1,060	2,204	5,381	16,541	(Z)	1,321	10,024
349	Fabricated metal products, n.e.c.....	9	6	587	3,956	463	985	2,842	8,356	(Z)	568	6,790
35	Machinery, except electrical....	49	12	965	5,873	712	1,463	3,950	9,678	(Z)	962	7,751
359	Miscellaneous machinery.....	24	4	420	2,695	325	671	1,947	4,012	(Z)	447	3,653
37	Transportation equipment.....	43	20	9,839	71,096	8,727	19,187	62,309	102,622	1,964	^r 6,129	^r 42,894
373	Ship and boat building.....	35	16	7,093	45,256	6,227	13,883	38,902	64,051	1,858	^r 5,974	^r 41,941
38	Instruments and related products	13	3	366	1,707	217	474	758	3,709	(Z)	176	1,564
--	Administrative and auxiliary ³ ...	-	-	283	2,193	-	-	-	-	-	271	-

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

¹Revised.

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliary are included in the totals for the area.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES



MCG3(P)-S20

Area series

MAINE

preliminary report

Value added by manufacturing in 1963 in the State of Maine amounted to \$779 million, an increase of 3 percent from 1962 and 24 percent from 1958. Of this total, \$230 million was contributed by the paper and allied products industries and \$137 million by the leather and leather products industries, the 2 leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.—GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	2,509	599	99,922	437,295	84,163	170,430	333,690	779,260	62,514	102	124
1962 ³	(NA)	(NA)	101,989	431,939	86,332	174,900	331,951	758,734	48,539	104	121
1961 ³	(NA)	(NA)	100,362	411,316	85,006	171,167	317,760	709,126	54,140	102	113
1960 ³	(NA)	(NA)	100,859	414,289	85,831	175,923	314,235	693,475	54,763	103	110
1959 ³	(NA)	(NA)	100,055	395,534	85,721	172,814	301,076	655,728	41,720	102	104
1958.....	2,733	579	98,262	377,186	83,670	16,222	285,216	628,325	47,257	100	100

(NA) Not available. [†] Revised.

¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

² Includes expenditures for plants under construction but not in operation.

³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

MAINE

Incorporated places of 100,000 and over 
 Incorporated places of 25,000-100,000 
 Standard Metropolitan Statistical Areas 

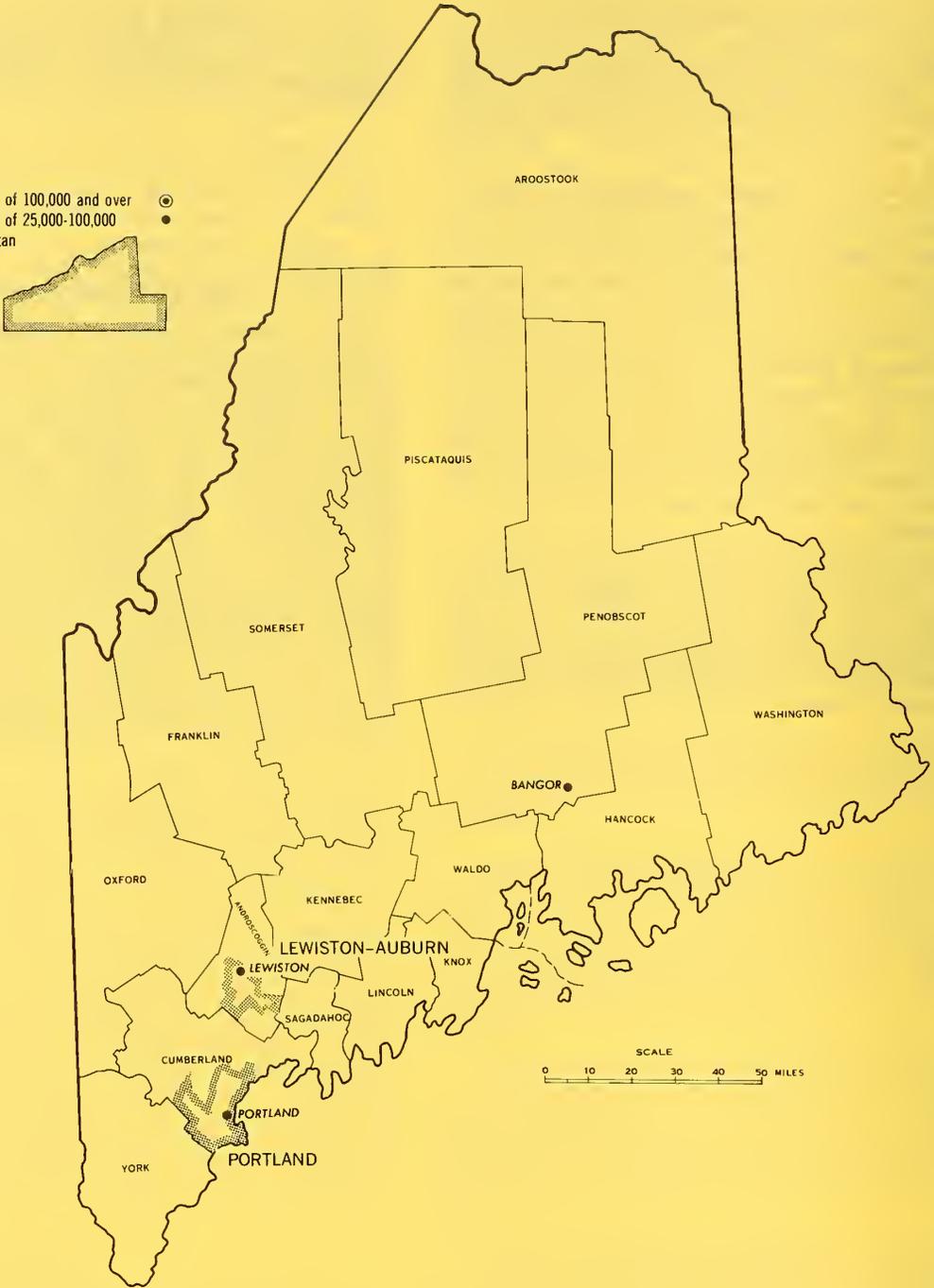


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

Standard metropolitan statistical areas and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufac-ture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MAINE, TOTAL.....	2,509	599	99,922	437,295	84,163	170,430	333,690	779,260	62,514	98,262	1,628,325
STANDARD METROPOLITAN STATISTICAL AREAS											
Lewiston-Auburn ⁴	186	67	12,488	48,255	10,709	20,391	36,469	76,011	3,003	13,046	68,730
Portland ⁵	218	79	12,553	65,206	9,552	19,772	44,569	127,267	9,738	12,856	109,092
COUNTIES ¹											
Androscoggin.....	222	76	13,945	53,475	12,019	23,113	40,716	83,809	3,292	15,090	77,190
Aroostook.....	224	39	4,554	18,552	4,014	8,515	15,959	34,254	5,541	3,487	27,341
Cumberland.....	327	104	16,268	77,511	12,873	26,006	55,133	150,282	10,417	15,389	121,868
Franklin.....	137	27	3,962	16,070	3,434	6,740	12,823	24,732	1,622	3,460	18,159
Hancock.....	99	15	1,898	8,327	1,568	3,153	6,992	16,495	1,501	1,726	11,109
Kennebec.....	171	47	9,973	44,592	8,433	17,011	34,469	95,214	5,720	10,584	74,116
Knox.....	92	28	2,356	8,963	2,032	4,004	7,015	17,011	677	2,346	15,809
Lincoln.....	61	10	966	3,596	819	1,617	2,774	6,248	(2)	926	5,983
Oxford.....	201	34	7,425	35,245	6,303	13,327	27,297	59,846	15,208	7,175	45,359
Penobscot.....	270	61	12,139	62,572	9,529	21,224	44,295	114,492	6,246	11,466	83,222
Piscataquis.....	109	16	1,891	6,679	1,699	3,489	5,445	11,631	(2)	2,021	10,386
Sagadahoc.....	25	10	3,756	21,000	3,306	6,313	17,320	36,593	852	4,269	33,200
Somerset.....	187	33	5,823	22,626	5,207	10,499	18,993	36,704	2,340	5,572	27,892
Waldo.....	77	16	1,925	6,768	1,673	3,295	5,414	13,486	746	1,949	11,933
Washington.....	123	26	2,539	10,380	2,184	4,154	8,171	21,083	1,528	2,681	19,766
York.....	184	57	10,592	40,939	9,070	17,970	30,874	57,380	6,038	10,121	44,992

(2) Less than \$500 thousand. ^RRevised.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for plants under construction but not in operation.

⁴The Lewiston-Auburn Standard Metropolitan Statistical Area consists of Auburn and Lewiston Cities and Lisbon Town in Androscoggin County, Maine.

⁵The Portland Standard Metropolitan Statistical Area consists of Portland, South Portland, and Westbrook Cities and Cape Elizabeth, Cumberland, and Falmouth Gorham, Scarborough, and Yarmouth Towns in Cumberland County, Maine.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ²	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,509	599	99,922	437,295	84,163	170,430	333,690	779,260	62,514	98,262	762,825
20	Food and kindred products.....	342	123	11,362	43,874	8,632	17,119	28,488	109,333	5,834	11,462	86,209
201	Meat products.....	35	10	1,754	6,369	1,518	3,052	4,844	15,517	640	1,715	11,149
202	Dairies.....	74	17	1,380	6,425	652	1,421	2,510	16,623	775	1,473	14,549
203	Canned and frozen foods.....	90	57	4,891	15,037	4,392	8,192	12,433	35,402	2,263	4,794	28,189
204	Grain mill products.....	25	5	289	1,513	217	547	1,072	6,734	920	314	7,428
205	Bakery products.....	45	15	2,003	9,708	1,259	2,573	5,349	23,722	(Z)	2,032	16,986
208	Beverages.....	45	11	552	2,391	272	599	970	6,285	(Z)	516	4,051
209	Miscellaneous foods and kindred products.....	24	8	467	2,343	299	684	1,236	4,873	(Z)	574	3,645
22	Textile mill products.....	61	47	12,053	46,895	10,894	22,746	39,808	79,632	3,516	13,575	65,997
222	Weaving mills, synthetics....	6	5	451	1,811	400	801	1,334	3,136	(Z)	483	2,887
223	Weaving, finishing mills, wool.....	22	19	4,965	19,796	4,475	9,554	16,418	36,380	728	5,091	28,246
228	Yarn and thread mills.....	10	8	962	3,167	911	1,771	2,870	6,834	(Z)	941	4,763
23	Apparel and related products...	44	27	3,594	10,868	3,320	5,868	9,013	18,107	789	3,072	15,137
24	Lumber and wood products.....	1,312	127	12,443	43,127	11,285	23,446	37,972	60,951	7,595	12,997	749,684
241	Logging camps and contractors	884	38	4,543	16,824	4,062	8,669	15,011	24,301	3,648	4,747	16,217
242	Sawmills and planing mills...	282	39	2,715	8,427	2,453	4,943	7,442	12,334	2,100	2,589	9,966
243	Millwork and related products	26	5	664	2,778	602	1,433	2,383	4,163	(Z)	832	4,526
249	Miscellaneous wood products..	99	43	4,301	14,407	3,962	7,935	12,476	19,096	1,463	4,525	18,015
25	Furniture and fixtures.....	33	7	662	2,814	538	1,203	1,987	4,821	(Z)	650	4,140
251	Household furniture.....	23	5	466	1,843	386	877	1,340	3,162	(Z)	432	2,537
26	Paper and allied products.....	50	35	16,537	107,584	13,326	30,269	82,649	229,754	32,990	17,019	179,121
262	Paper mills, except building...	17	15	13,534	91,030	10,864	25,037	70,059	188,143	30,362	14,187	154,003
264	Paper and paperboard products	13	8	1,716	10,120	1,374	2,941	7,566	30,333	1,710	1,434	13,770
265	Paperboard containers and boxes.....	13	5	988	1,723	323	660	1,294	3,057	(Z)	342	2,236
27	Printing and publishing.....	148	19	2,337	11,127	1,459	2,741	6,324	19,410	743	2,151	15,646
271	Newspapers.....	53	11	1,600	7,959	908	1,666	4,163	13,648	(Z)	1,512	11,554
275	Commercial printing.....	72	7	527	2,200	394	771	1,483	4,025	(Z)	481	3,108
28	Chemicals and allied products..	29	7	585	2,662	461	950	1,768	6,446	589	637	5,558
30	Rubber and plastics products, n.e.c.....	22	9	1,507	6,181	1,320	2,682	4,356	9,117	4,123	1,146	8,424
307	Plastics products, n.e.c.....	13	5	894	4,123	748	1,558	2,844	6,631	(D)	1,017	7,733
31	Leather and leather products...	127	100	24,873	92,035	22,456	42,074	73,872	136,612	1,899	21,519	101,125
311	Leather tanning and finishing	14	12	2,076	9,305	1,814	3,728	7,555	14,977	(Z)	1,375	8,394
314	Footwear, except rubber.....	78	66	21,338	77,725	19,339	35,902	62,548	113,204	1,266	19,233	88,388
32	Stone, clay and glass products..	58	20	1,194	5,657	928	1,941	3,923	11,201	888	1,049	10,083
327	Concrete and plaster products	35	12	584	2,656	407	901	1,621	5,550	661	465	4,226
34	Fabricated metal products.....	55	16	1,472	7,997	1,093	2,295	5,902	15,259	730	1,578	14,129
344	Structural metal products....	27	7	520	2,930	366	814	1,834	6,114	(Z)	542	5,141
35	Machinery, except electrical...	74	18	1,815	9,107	1,365	2,786	6,059	13,320	(Z)	2,862	13,531
359	Miscellaneous machinery.....	27	4	288	1,343	235	458	975	1,743	(Z)	332	2,197
36	Electrical machinery.....	13	8	2,036	8,028	1,655	3,395	5,616	9,807	507	862	5,528
37	Transportation equipment.....	76	17	4,358	24,353	3,648	7,263	19,482	40,212	1,018	5,324	42,901
39	Miscellaneous manufacturing, including ordnance ³	47	12	2,008	8,171	1,488	3,056	5,205	11,974	(Z)	1,262	7,111
394	Toys and sporting goods.....	17	5	466	1,629	394	786	1,228	2,739	(Z)	701	3,167
-	Administrative and auxiliary ⁴ ..	-	-	698	4,867	-	-	-	-	-	572	-

-Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. [†]Revised.¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordinance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics

Part 1, Major Groups 20-28

Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

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1963 CENSUS OF MANUFACTURES



MC63(P)S21

Area series

MARYLAND

preliminary report

Value added by manufacturing in 1963 in the State of Maryland amounted to \$2,978 million, an increase of 6 percent from 1962 and 25 percent from 1958. Of this total, \$516 million was contributed by primary metal industries and \$402 million by the transportation equipment industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	3,451	1,366	263,709	1,550,013	188,867	377,101	960,075	2,978,013	174,087	102	125
1962 ³	(NA)	(NA)	252,170	1,419,523	182,873	355,710	887,807	2,821,515	223,930	97	119
1961 ³	(NA)	(NA)	254,261	1,375,485	182,921	352,806	857,028	2,698,232	195,507	98	113
1960 ³	(NA)	(NA)	257,137	1,343,822	187,595	368,656	854,340	2,694,782	179,113	99	113
1959 ³	(NA)	(NA)	257,003	1,301,736	188,453	369,979	834,102	2,640,825	119,394	99	111
1958.....	3,435	1,334	259,078	1,255,269	190,472	368,548	813,332	2,379,414	128,085	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

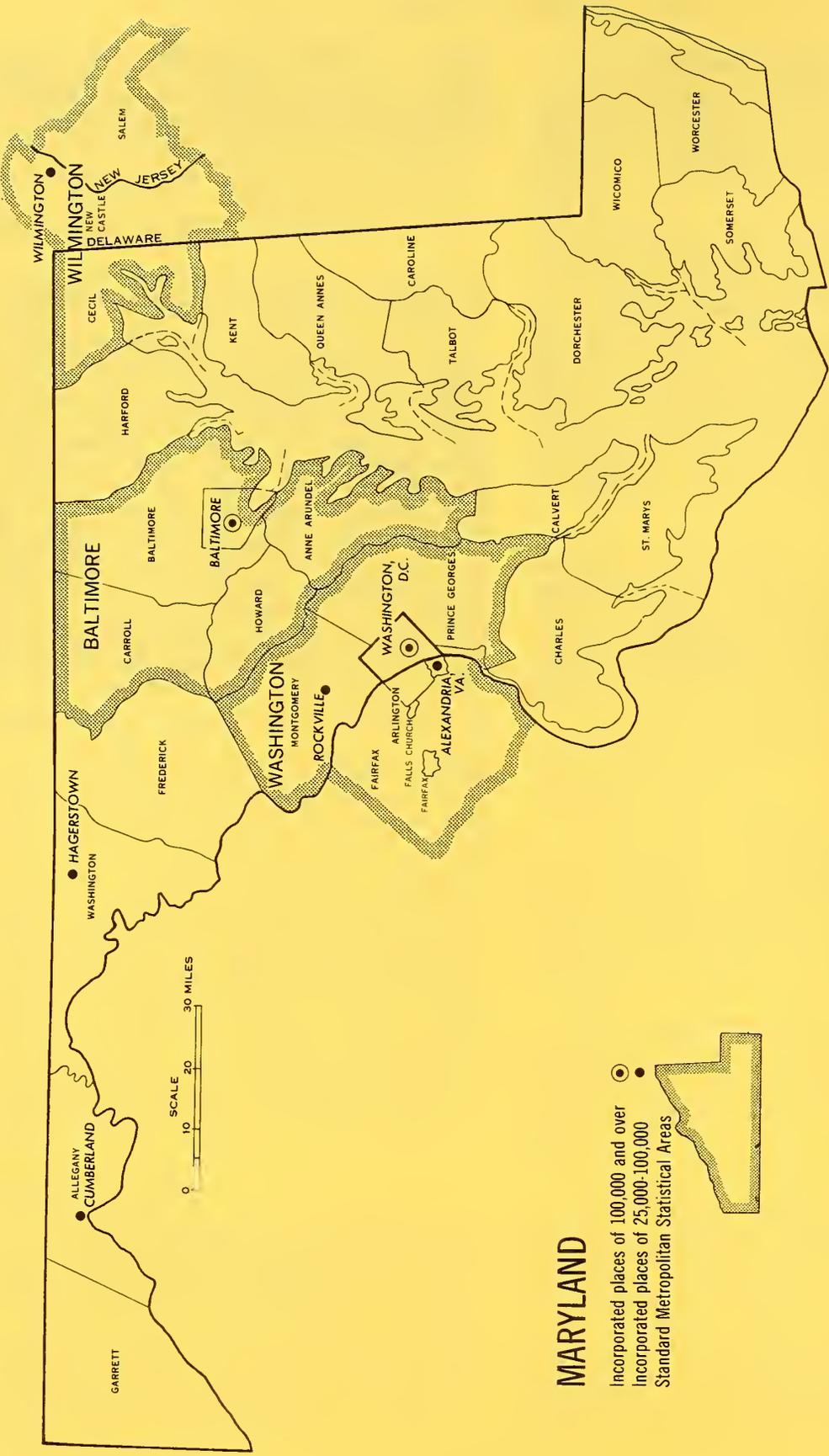
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



MARYLAND

- Incorporated places of 100,000 and over
- Incorporated places of 25,000-100,000
- Standard Metropolitan Statistical Areas

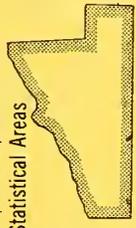


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MARYLAND, TOTAL.....	3,451	1,366	263,709	1,550,013	188,867	377,101	960,075	2,978,013	174,087	259,078	2,379,414
STANDARD METROPOLITAN STATISTICAL AREAS											
Baltimore ⁴	2,027	840	191,085	1,186,798	134,086	267,686	729,798	2,341,934	124,041	197,814	1,963,553
Washington, D.C.-Maryland-Virginia ⁵	1,200	354	49,899	322,796	27,874	55,807	154,097	524,768	31,577	35,020	312,152
Portion in Maryland.....	417	125	15,908	106,265	8,917	19,005	48,878	154,643	9,250	9,190	80,514
Portion in Washington, D.C.....	557	154	22,262	148,025	11,403	21,643	65,028	260,511	13,491	21,334	198,089
Portion in Virginia.....	226	75	11,729	68,506	7,554	15,159	40,191	109,614	8,836	4,496	33,549
Wilmington, Delaware-New Jersey-Maryland ⁶	460	192	60,722	476,235	31,098	62,554	182,492	708,126	52,490	58,709	470,820
Portion in Delaware.....	338	144	46,444	376,095	21,401	44,126	126,450	487,920	29,741	46,025	312,301
Portion in New Jersey.....	59	23	10,895	82,860	7,245	13,435	45,775	190,013	(D)	10,481	142,933
Portion in Maryland.....	63	25	3,383	17,280	2,452	4,993	10,267	30,193	(D)	2,203	15,586
COUNTIES ¹											
Allegany.....	79	27	10,216	65,014	7,762	16,603	46,402	120,647	23,546	9,389	94,157
Anne Arundel.....	130	42	15,386	110,188	7,829	16,118	42,450	172,961	7,466	8,321	78,104
Baltimore City.....	1,483	624	104,577	609,593	76,121	153,522	396,770	1,315,037	59,066	113,401	1,062,535
Baltimore.....	294	125	63,525	431,488	43,989	86,004	267,424	784,267	54,892	70,164	770,604
Calvert.....	18	4	391	1,306	278	529	801	1,727	(Z)	316	1,776
Caroline.....	50	22	1,833	5,841	1,625	3,392	4,630	12,500	874	1,853	10,068
Carroll.....	79	33	5,598	22,790	4,851	9,343	17,135	53,681	1,618	4,734	42,059
Cecil.....	63	25	3,383	17,280	2,452	4,993	10,267	30,193	(D)	2,203	15,586
Charles.....	32	10	453	1,508	376	746	1,066	3,274	(Z)	369	1,945
Dorchester.....	85	42	3,623	12,262	3,144	5,905	9,231	24,039	2,159	3,548	21,489
Frederick.....	74	34	4,507	18,408	3,733	7,139	12,981	46,539	1,845	4,231	27,719
Garrett.....	39	4	593	1,924	488	919	1,447	3,204	(Z)	505	1,791
Harford.....	72	27	4,672	19,019	3,994	7,578	14,566	37,523	1,162	3,197	24,982
Howard.....	41	16	1,999	12,779	1,296	2,699	6,019	15,988	999	1,194	10,251
Kent.....	28	9	1,532	4,755	1,399	2,729	3,893	6,326	(Z)	822	3,526
Montgomery.....	218	62	7,322	53,527	3,872	8,245	20,598	62,310	3,632	3,969	33,269
Prince Georges.....	199	63	8,586	52,738	5,045	10,760	28,280	92,333	5,618	5,221	47,245
Queen Annes.....	29	13	719	1,940	604	1,071	1,291	5,525	(Z)	514	1,457
St. Marys.....	36	5	267	772	217	385	540	1,888	(Z)	234	1,042
Somerset.....	54	23	1,596	3,284	1,370	2,278	2,461	6,519	(Z)	1,656	5,423
Talbot.....	68	28	2,084	5,997	1,809	3,111	4,713	11,906	703	1,455	6,251
Washington.....	129	56	12,218	68,778	9,217	19,005	45,493	101,588	3,734	13,459	61,701
Wicomico.....	98	46	6,316	21,526	5,358	9,848	15,788	44,895	1,980	5,911	36,044
Worcester.....	53	26	2,313	7,336	2,038	4,179	5,829	23,143	763	2,412	20,390

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for plants under construction but not in operation.

⁴The Baltimore Standard Metropolitan Statistical Area consists of Baltimore City, Anne Arundel, Baltimore, Carroll, and Howard Counties, Md.

⁵The Washington Standard Metropolitan Statistical Area consists of the District of Columbia, Alexandria, Fairfax City, Falls Church cities and Arlington and Fairfax Counties, Va., Montgomery and Prince Georges Counties, Md.

⁶The Wilmington Standard Metropolitan Statistical Area consists of New Castle County, Del., Salem County, N.J. and Cecil County, Md.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	3,451	1,366	263,709	1,550,013	188,867	377,101	960,075	2,978,013	174,087	259,078	2,379,414
20	Food and kindred products.....	592	312	35,248	159,854	23,949	47,147	90,371	401,857	15,323	35,780	326,302
201	Meat products.....	75	37	7,224	32,793	5,962	11,564	23,721	58,335	1,618	6,192	43,991
202	Dairies.....	61	38	4,131	22,472	1,419	2,961	6,868	54,058	3,450	4,513	43,701
203	Canned and frozen foods.....	186	117	8,997	22,751	7,926	14,596	17,495	47,826	3,508	9,687	45,812
204	Grain mill products.....	33	13	806	3,999	477	1,074	1,991	15,176	(Z)	979	19,483
207	Candy and related products...	26	7	518	1,526	437	776	1,094	3,719	(Z)	629	4,470
208	Beverages.....	72	41	6,071	37,745	3,288	6,797	18,495	118,913	3,161	5,890	88,066
209	Miscellaneous foods and kindred products.....	59	20	1,672	7,884	1,092	2,233	4,337	30,317	963	1,818	25,760
22	Textile mill products.....	34	22	2,444	9,135	2,198	4,250	7,514	18,364	592	3,325	18,929
224	Narrow fabric mills.....	7	7	464	1,266	431	798	1,052	3,340	(Z)	404	2,391
225	Knitting mills.....	6	5	499	1,070	446	692	913	1,414	(Z)	595	2,278
23	Apparel and related products...	324	175	22,897	83,446	20,076	36,313	62,045	153,108	2,371	22,107	119,006
231	Men's and boys' suits and coats.....	73	43	7,950	32,500	6,817	12,318	24,363	62,694	609	7,080	44,402
232	Men's and boys' furnishings..	78	48	5,079	15,600	4,571	8,004	11,709	28,325	(Z)	5,592	26,597
233	Women's and misses' outerwear	58	45	4,763	16,616	4,208	7,689	12,867	27,371	1,008	4,752	23,892
235	Millinery, hats and caps.....	13	7	522	1,696	447	689	1,103	2,635	(Z)	620	3,223
236	Children's outerwear.....	16	11	979	2,675	908	1,643	2,301	4,084	(Z)	795	2,827
24	Lumber and wood products.....	330	60	4,588	16,664	3,892	7,712	12,620	29,604	1,967	5,135	23,630
241	Logging camps and contractors	78	2	284	631	257	477	568	1,327	(Z)	296	1,121
243	Millwork and related products	56	19	1,331	6,510	1,033	2,145	4,381	12,987	510	1,077	7,168
244	Wooden containers.....	18	4	699	2,217	627	1,278	1,840	3,317	(Z)	794	3,414
249	Miscellaneous wood products..	29	7	598	2,376	544	1,083	1,902	3,774	(Z)	706	4,431
25	Furniture and fixtures.....	119	50	5,016	21,554	4,152	8,524	16,234	32,783	2,669	4,860	29,825
251	Household furniture.....	79	38	2,782	11,222	2,303	4,683	8,371	18,505	(Z)	2,224	12,998
259	Furniture and fixtures, n.e.c.....	13	5	1,857	8,243	1,549	3,252	6,495	10,760	2,042	2,190	14,016
26	Paper and allied products.....	74	55	9,558	54,594	7,769	16,823	39,419	101,367	8,569	8,938	74,850
264	Paper and paperboard products	20	15	887	4,336	750	1,503	2,969	9,573	(Z)	702	6,404
265	Paperboard containers and boxes.....	48	34	5,697	30,720	4,599	9,821	21,581	51,289	3,894	5,477	43,204
27	Printing and publishing.....	491	121	14,567	85,281	9,859	19,584	53,642	144,875	8,230	11,943	99,138
271	Newspapers.....	69	19	4,227	25,016	2,154	3,908	13,158	43,639	2,729	4,018	32,336
272	Periodicals.....	24	3	664	3,845	67	126	386	7,455	587	230	1,960
273	Books.....	31	13	1,490	8,489	1,145	2,405	5,798	13,908	948	725	5,666
275	Commercial printing.....	262	51	4,804	28,248	3,894	7,940	21,406	44,431	2,157	3,963	31,059
278	Bookbinding and related work.	23	12	1,342	6,185	1,150	2,221	4,464	8,355	539	1,355	8,300
279	Printing trades services.....	53	13	729	4,900	568	1,189	3,667	6,957	(Z)	539	4,607
28	Chemicals and allied products..	208	88	13,940	81,828	9,555	19,559	50,125	287,102	15,332	12,908	192,548
281	Basic chemicals.....	41	15	3,353	20,984	2,205	4,545	12,573	62,762	6,919	3,534	49,471
283	Drugs.....	23	9	1,201	5,303	767	1,488	2,763	21,426	610	1,090	14,927
284	Cleaning and toilet goods....	39	15	2,936	19,656	2,059	4,208	12,310	134,156	2,704	1,746	61,384
285	Paints and allied products....	32	16	1,276	7,663	613	1,295	2,701	15,418	592	1,180	15,449
287	Agricultural chemicals.....	33	21	1,556	7,821	1,123	2,408	5,335	13,701	1,721	1,690	14,937
29	Petroleum and coal products....	34	13	1,319	8,623	955	2,189	5,864	22,253	3,713	1,264	18,818
291	Petroleum refining.....	5	5	504	3,851	353	678	2,592	11,842	2,219	606	9,414
30	Rubber and plastics products, n.e.c.....	50	32	10,541	53,485	8,668	17,588	39,220	87,618	12,787	8,392	74,000
306	Rubber products, n.e.c.....	12	10	1,827	7,703	1,540	3,078	5,750	13,159	(Z)	2,099	14,148
307	Plastics products, n.e.c.....	33	18	2,587	13,049	1,940	4,080	7,851	22,181	6,429	1,489	11,837
31	Leather and leather products...	23	15	2,415	7,993	2,120	3,991	6,091	11,842	(Z)	2,491	10,849
314	Footwear, except rubber.....	12	11	1,847	5,896	1,606	2,929	4,424	7,857	(Z)	1,936	8,165
32	Stone, clay and glass products..	203	80	9,505	54,955	7,711	16,264	41,145	124,698	20,861	8,486	94,268
325	Structural clay products.....	16	12	819	4,107	700	1,453	3,152	7,005	(Z)	778	5,977
327	Concrete and plaster products	137	48	2,992	15,569	2,157	4,557	9,610	41,717	5,183	2,409	24,430
33	Primary metal industries.....	49	29	36,029	249,511	28,784	55,547	189,432	515,518	45,897	35,991	430,062
332	Iron and steel foundries.....	8	7	756	3,858	657	1,423	3,021	5,323	1,369	771	5,162

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(Z)	(\$1,000)
34	Fabricated metal products.....	284	108	13,569	82,717	10,547	22,050	59,180	156,545	8,380	14,477	135,399
341	Metal cans.....	10	9	3,694	26,962	3,186	6,966	22,317	44,816	1,747	4,269	38,833
343	Plumbing and heating, except electric.....	10	8	1,144	6,746	944	1,920	5,194	18,462	563	1,391	14,977
344	Structural metal products....	154	57	4,437	25,070	3,045	6,294	14,915	42,455	1,289	3,867	33,453
346	Metal stampings.....	16	8	1,444	8,837	1,169	2,369	6,742	14,979	3,335	2,058	15,832
347	Metal services, n.e.c.....	34	6	628	3,604	478	968	2,262	5,394	(Z)	466	4,023
348	Fabricated wire products, n.e.c.....	17	5	933	4,611	677	1,304	2,796	13,477	(Z)	1,152	12,927
349	Fabricated metal products, n.e.c.....	23	12	883	4,676	722	1,565	3,370	13,003	(Z)	745	11,193
35	Machinery, except electrical... Construction and like equipment.....	218	60	11,557	72,557	7,954	16,565	43,857	140,569	6,115	10,600	105,275
353	Metalworking machinery.....	10	3	632	5,027	251	547	1,300	10,033	971	485	4,390
354	Special industry machinery....	38	5	2,922	16,253	2,261	4,389	10,984	44,494	1,406	2,628	28,653
355	General industrial machinery...	33	17	2,991	19,926	1,971	4,342	12,560	34,660	1,146	2,645	24,730
356	Service industry machines....	21	3	1,060	7,007	609	1,251	3,340	9,713	520	1,722	13,480
358	Miscellaneous machinery.....	17	8	1,351	8,164	871	1,735	4,093	16,140	(Z)	1,151	13,893
359	Miscellaneous machinery.....	89	18	2,311	14,126	1,794	3,894	10,283	23,784	1,560	1,439	10,121
36	Electrical machinery.....	108	50	26,961	187,760	15,046	30,383	85,601	295,114	8,318	r20,140	r185,681
361	Electric distribution products.....	17	7	499	2,565	368	723	1,614	3,983	(Z)	906	4,925
362	Electric industrial apparatus	11	6	1,087	5,441	817	1,601	3,464	10,945	(Z)	778	5,842
366	Communication equipment.....	29	20	22,441	163,097	11,942	24,013	71,169	252,130	6,840	r16,089	r149,745
367	Electronic components.....	25	9	1,187	5,943	813	1,644	3,883	10,368	810	377	3,902
37	Transportation equipment.....	127	41	31,897	235,530	21,037	43,280	137,328	402,367	10,532	43,723	394,831
373	Ship and boat building.....	85	20	10,274	65,807	8,605	16,199	52,316	91,443	1,384	12,143	99,386
38	Instruments and related products: Scientific instruments.....	17	9	987	6,035	665	1,662	3,895	10,083	(Z)	1,489	10,961
39	Miscellaneous manufacturing, including ordnance ³	123	34	4,122	22,358	3,022	5,951	13,145	32,336	1,625	r4,134	r29,711
391	Jewelry and silverware.....	8	5	269	1,347	203	401	872	1,880	(Z)	273	1,516
394	Toys and sporting goods.....	14	5	603	2,680	507	897	1,763	5,254	(Z)	401	2,791
398	Miscellaneous manufactures ³ ..	78	20	2,633	15,300	1,812	3,649	8,108	20,734	1,149	r2,607	r20,520
399	Administrative and auxiliary ⁴ ..	-	-	5,473	51,250	-	-	-	-	-	2,200	-

-Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BALTIMORE SMSA (Consists of Baltimore City, Anne Arundel, Baltimore, Carroll, and Howard Counties, Md.)												
	All industries, total ²	2,027	840	191,085	1,186,798	134,086	267,686	729,798	2,341,934	124,041	197,814	1,963,553
20	Food and kindred products.....	284	134	20,203	108,504	12,212	24,257	57,427	283,049	8,712	22,616	239,830
201	Meat products.....	49	22	3,750	20,689	2,877	5,314	13,756	34,523	850	4,455	32,463
202	Dairies.....	25	19	2,950	16,553	887	1,876	4,408	36,420	2,485	3,366	16,268
203	Canned and frozen foods.....	43	19	1,803	6,083	1,477	2,821	4,253	13,468	(Z)	2,331	13,095
205	Bakery products.....	55	26	4,016	19,559	2,297	4,808	10,043	36,744	986	3,890	28,919
208	Beverages.....	42	24	4,722	30,250	2,709	5,512	15,946	101,412	2,250	4,798	77,321
209	Miscellaneous foods and kindred products.....	36	12	1,302	6,322	823	1,667	3,326	25,908	628	1,513	23,104
22	Textile mill products.....	19	10	1,502	6,124	1,317	2,563	4,933	10,370	(Z)	2,302	12,537
23	Apparel and related products...	249	124	16,008	63,849	13,545	25,022	45,568	114,604	2,061	16,010	95,857
232	Men's and boys' furnishings...	54	28	2,309	8,361	1,959	3,538	5,480	14,525	(Z)	2,505	13,618
233	Women's and misses' outerwear	39	28	2,703	10,785	2,253	4,170	7,647	20,822	916	3,375	19,520
236	Children's outerwear.....	6	4	390	1,131	355	671	946	1,663	(Z)	267	1,037
239	Fabricated textiles, n.e.c....	58	13	1,833	8,477	1,579	3,059	5,144	14,030	(Z)	2,218	12,456
24	Lumber and wood products.....	91	26	1,610	6,558	1,363	2,783	4,927	12,827	719	1,918	10,597
243	Millwork and related products	32	15	783	3,504	629	1,322	2,404	8,305	(Z)	691	4,170
249	Miscellaneous wood products..	17	3	326	1,331	299	590	1,135	1,920	(Z)	422	2,378
25	Furniture and fixtures.....	78	35	3,913	16,885	3,223	6,627	12,661	25,229	2,472	4,072	25,300
251	Household furniture.....	54	25	1,881	7,390	1,537	3,097	5,403	12,090	(Z)	1,586	9,257
26	Paper and allied products.....	64	49	6,918	37,068	5,661	11,914	26,319	66,085	4,862	6,680	55,769
27	Printing and publishing.....	317	84	10,619	63,847	7,289	14,387	30,613	97,320	5,277	9,533	75,187
271	Newspapers.....	22	8	3,207	19,727	1,555	2,740	10,121	32,228	1,354	3,201	26,617
273	Books.....	22	9	900	5,650	640	1,360	3,690	9,150	(Z)	421	3,987
275	Commercial printing.....	185	41	3,709	21,783	3,015	6,114	16,531	33,254	1,774	3,103	24,098
279	Printing trades services.....	40	11	652	4,350	508	1,061	3,305	6,211	(Z)	483	4,157
28	Chemicals and allied products..	140	64	9,260	57,090	6,012	12,410	33,105	234,262	11,990	8,745	153,009
281	Basic chemicals.....	29	10	2,784	18,081	1,841	3,813	10,797	51,796	6,446	3,097	43,332
284	Cleaning and toilet goods....	33	14	2,877	19,239	2,041	4,172	12,233	133,266	2,692	1,688	60,547
285	Paints and allied products....	23	14	1,146	6,864	533	1,328	2,328	13,600	539	1,099	14,477
287	Agricultural chemicals.....	18	14	1,196	6,388	874	1,884	4,514	10,321	1,335	1,345	12,307
289	Miscellaneous chemical products.....	16	4	449	2,950	256	528	1,600	8,729	526	490	6,519
29	Petroleum and coal products....	19	9	750	5,204	527	1,083	3,494	15,626	2,738	857	11,235
291	Petroleum refining.....	5	5	504	3,851	353	678	2,592	11,842	2,219	606	9,414
30	Rubber and plastics products, n.e.c.....	32	21	4,803	23,086	3,835	7,941	15,516	37,794	6,666	3,777	29,166
307	Plastics products, n.e.c.....	21	13	2,219	11,647	1,614	3,458	6,805	19,015	6,201	1,286	10,766
32	Stone, clay and glass products..	87	39	6,026	34,346	4,971	10,474	26,355	75,726	4,667	5,631	64,122
323	Products of purchased glass..	10	2	292	1,136	94	509	957	1,910	(Z)	233	1,328
327	Concrete and plaster products	52	22	1,383	7,572	956	2,067	4,441	21,002	1,814	1,273	14,070
33	Primary metal industries.....	38	24	35,381	246,400	28,230	54,418	186,922	510,689	45,684	35,688	428,446
332	Iron and steel foundries.....	5	5	571	3,085	502	1,118	2,429	4,129	1,369	557	4,061
34	Fabricated metal products.....	202	80	10,799	67,588	8,697	18,202	50,327	129,108	6,581	12,202	116,048
343	Plumbing and heating, except electric.....	9	8	1,141	6,730	942	1,916	5,182	18,446	562	1,391	14,957
344	Structural metal products....	98	35	2,537	14,860	1,865	3,788	9,368	26,109	632	2,507	22,463
349	Fabricated metal products, n.e.c.....	21	11	790	4,143	657	1,428	3,065	11,607	(Z)	663	10,356
35	Machinery, except electrical...	159	49	9,285	59,082	6,567	13,660	37,073	118,547	5,598	8,513	85,958
355	Special industry machinery...	26	15	1,999	13,549	1,408	3,141	9,501	25,625	1,002	1,792	18,037
359	Miscellaneous machinery.....	65	16	2,145	13,422	1,669	3,591	9,734	22,455	1,476	1,263	9,221
36	Electrical machinery.....	54	23	22,099	158,559	11,481	23,014	65,680	245,771	6,487	^r 17,347	^r 163,931
366	Communication equipment.....	10	8	19,782	144,127	9,987	19,893	57,943	220,110	6,081	^r 14,716	^r 137,971
37	Transportation equipment.....	69	26	23,428	178,894	15,400	31,715	104,055	329,108	7,860	34,536	359,566
39	Miscellaneous manufacturing, including ordnance ³	77	25	2,803	16,367	1,934	3,844	8,744	21,892	962	^r 2,661	^r 20,482
391	Jewelry and silverware.....	8	5	269	1,347	203	401	872	1,880	(Z)	273	1,516
398 } 399 } 190 }	Miscellaneous manufactures ³	49	16	2,041	12,465	1,328	2,672	6,189	15,212	508	^r 2,061	^r 16,833
--	Administrative and auxiliary ⁴ ..	-	-	3,558	29,211	-	-	-	-	-	1,910	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES



MC63(P)-S22

preliminary report

Area series

MASSACHUSETTS

Value added by manufacturing in 1963 in the State of Massachusetts amounted to \$6,365 million, a decrease of 2 percent from 1962 and an increase of 24 percent from 1958. Of this total, \$966 million was contributed by the electrical machinery industries and \$722 million by the nonelectric machinery industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	11,170	4,258	676,397	3,726,571	482,436	950,205	2,235,846	6,365,008	273,868	99	124
1962.....	(NA)	(NA)	717,770	3,738,033	518,604	1,023,194	2,289,302	6,522,373	287,170	105	127
1961.....	(NA)	(NA)	715,589	3,595,820	516,846	1,015,507	2,185,269	6,223,308	277,000	105	121
1960.....	(NA)	(NA)	719,079	3,488,065	522,844	1,025,763	2,135,348	6,037,400	288,660	106	118
1959.....	(NA)	(NA)	717,376	3,390,877	524,221	1,036,104	2,107,681	5,901,830	269,858	105	115
1958.....	11,408	4,376	680,628	3,071,353	498,103	968,683	1,932,012	5,128,522	225,007	100	100

(NA) Not available. ^r Revised.
¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
² Includes expenditures for plants under construction but not in operation.
³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MASSACHUSETTS, TOTAL.....	11,170	4,258	676,997	3,726,571	482,436	950,205	2,235,846	6,365,008	273,868	680,628	2,128,522
STANDARD METROPOLITAN STATISTICAL AREAS											
Boston ⁴	5,386	1,905	295,905	1,777,374	194,261	381,842	969,787	3,009,156	124,972	301,049	2,422,089
Brookline ⁵	400	154	15,654	70,524	12,838	23,831	51,365	118,367	4,781	15,754	99,665
Fall River ⁶	342	190	22,875	83,935	19,835	36,258	65,452	138,267	4,075	23,665	112,722
Portion in Massachusetts.....	332	189	22,812	83,772	19,790	36,172	65,390	137,885	4,045	23,617	112,356
Portion in Rhode Island.....	10	1	63	163	45	86	102	382	(2)	48	366
Fitchburg-Leominster ⁷	286	120	17,487	92,117	13,789	28,542	64,876	167,453	14,450	16,976	126,072
Lawrence-Haverhill ⁸	469	188	41,787	213,111	30,354	58,153	131,705	359,089	16,312	36,361	268,186
Portion in New Hampshire.....	30	6	427	1,503	310	596	883	2,469	(2)	163	960
Portion in Massachusetts.....	439	182	41,360	211,608	30,044	57,597	130,822	356,620	16,062	36,198	267,226
Lowell ⁹	296	133	20,887	99,956	16,737	32,371	68,204	169,630	5,919	22,202	136,047
New Bedford ¹⁰	306	148	25,378	102,368	21,090	39,923	75,836	163,686	4,751	26,522	146,888
Pittsfield ¹¹	95	42	16,115	113,638	8,343	17,452	49,026	191,431	8,791	14,230	144,352
Providence ¹²	2,904	943	125,754	596,409	99,186	196,968	406,358	1,067,491	47,230	127,150	852,083
Portion in Massachusetts.....	348	132	18,514	94,498	14,201	29,948	61,502	171,804	6,841	18,128	131,466
Portion in Rhode Island.....	2,556	811	107,240	501,911	84,985	167,020	344,856	895,687	40,389	109,022	720,617
Springfield-Holyoke ¹³	965	388	68,800	387,238	50,180	99,734	242,659	679,775	28,636	71,638	597,404
Portion in Connecticut.....	8	2	329	1,476	290	610	1,141	2,446	(2)	413	3,525
Portion in Massachusetts.....	957	386	68,471	385,762	49,890	99,124	241,518	677,329	28,599	71,425	593,879
Worcester ¹⁴	773	296	47,582	267,148	34,050	67,409	167,060	436,005	17,278	51,124	377,725
COUNTIES ¹											
Barnstable.....	80	10	769	3,272	554	1,086	2,131	5,879	(2)	694	4,232
Berkshire.....	204	73	23,815	154,342	13,626	28,655	75,140	248,011	12,730	21,838	194,809
Bristol.....	1,075	518	73,348	313,374	60,319	116,655	224,229	545,629	18,787	74,289	436,140
Essex.....	1,332	483	90,909	496,603	64,635	123,482	302,116	839,357	36,730	88,438	716,155
Franklin.....	121	43	6,686	34,908	5,143	10,295	23,237	69,387	2,939	6,167	52,759
Hamden.....	892	360	62,421	354,717	45,718	90,928	223,389	616,996	26,032	65,161	536,583
Hampshire.....	151	54	8,702	44,730	6,534	13,419	29,224	85,315	3,800	8,543	73,314
Middlesex.....	2,365	909	157,716	953,459	104,633	208,481	515,531	1,462,568	70,867	154,575	1,112,730
Norfolk.....	734	247	46,441	276,806	29,192	58,634	145,973	456,646	17,991	45,575	373,169
Plymouth.....	532	189	19,308	86,460	15,717	29,494	61,149	150,705	6,259	19,430	130,236
Suffolk.....	2,183	758	87,356	482,006	60,747	117,334	283,725	998,691	30,834	95,834	784,758
Worcester.....	1,489	614	99,443	525,527	75,563	151,637	349,767	885,386	46,417	99,970	713,050

(2) Less than \$500 thousand. ¹Revised.

²Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

³Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

⁴Includes expenditures for plants under construction but not in operation.

⁵The Boston Standard Metropolitan Statistical Area consists of Boston, Chelsea, Revere cities and Winthrop town in Suffolk County, Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities and Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County, Beverly, Lynn, Peabody, and Salem cities and Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middletown, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex County, Quincy city and Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Holbrook, Medfield, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Walpole, Wellsley, Westwood, and Weymouth towns in Norfolk County and Duxbury, Hanover, Hingham, Hull, Marshfield, Norwell, Pembroke, Rockland, and Scituate towns in Plymouth County, Mass.

⁶The Brockton Standard Metropolitan Statistical Area consists of Brockton city and Abington, Bridgewater, East Bridgewater, Hanson, West Bridgewater, and Whitman towns in Plymouth County, Avon and Stoughton towns in Norfolk County, and Easton town in Bristol County, Mass.

⁷The Fall River Standard Metropolitan Statistical Area consists of Fall River city and Somerset, Swansea, and Westport towns in Bristol County, Mass.; and Tiverton town in Newport County, R.I.

⁸The Fitchburg-Leominster Standard Metropolitan Statistical Area consists of Fitchburg and Leominster cities, Lunenburg and Westminster towns in Worcester County, and Shirley and Townsend towns in Middlesex County, Massachusetts.

⁹The Lawrence-Haverhill Standard Metropolitan Statistical Area consists of Lawrence and Haverhill cities and Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, and West Newbury towns in Essex County, Mass.; and Newton, Plainfield, and Salem towns in Rockingham County, N.H.

¹⁰The Lowell Standard Metropolitan Statistical Area consists of Lowell city and Billerica, Chelmsford, Dracut, Tewksbury, and Tyngsborough and Westford towns in Middlesex County, Mass.

¹¹The New Bedford Standard Metropolitan Statistical Area consists of New Bedford city and Acushnet, Dartmouth, and Fairhaven towns in Bristol County, and Marion and Mattapoisett towns in Plymouth County, Mass.

¹²The Pittsfield Standard Metropolitan Statistical Area consists of Pittsfield city and Dalton, Lanesborough, Lenox, and Lee towns in Berkshire County, Mass.

¹³The Providence-Pawtucket-Warwick, Standard Metropolitan Statistical Area consists of Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield and Smithfield towns in Providence County, Narragansett and North Kingstown towns in Washington County, Warwick city and Coventry, East Greenwich and West Warwick towns in Kent County, Jamestown town in Newport County, Barrington, Bristol, and Warren towns in Bristol County, R.I.; also Attleboro city and North Attleboro, Rehoboth, and Seekonk towns in Bristol County, Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, and Blackstone and Millville towns in Worcester County, Mass.

¹⁴The Springfield-Holyoke Standard Metropolitan Statistical Area consists of Chicopee, Holyoke, Springfield, and Westfield cities and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County, Northampton city and Easthampton town in Hampshire County, and Warren town in Worcester County, Mass.; also Somers town in Tolland County, Conn.

¹⁵The Worcester Standard Metropolitan Statistical Area consists of Worcester city and Auburn, Berlin, Boylston, Brookfield, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Westborough, and West Boylston towns in Worcester County, Mass.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958
(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	11,170	4,258	676,997	3,726,571	482,436	950,205	2,235,846	6,365,008	273,868	^R 680,628	^R 5,128,522
20	Food and kindred products....	1,109	368	41,066	209,267	26,029	52,713	115,994	502,039	22,807	48,045	409,697
201	Meat products.....	99	33	4,305	25,536	3,331	7,074	17,478	51,075	1,225	5,605	54,219
202	Dairies.....	288	84	7,451	36,553	3,234	6,709	14,703	107,907	6,483	9,494	78,883
203	Canned and frozen foods....	117	49	4,460	18,889	3,553	6,922	12,544	45,560	1,949	4,227	32,519
204	Grain mill products.....	32	15	862	4,234	598	1,304	2,515	13,329	767	547	9,154
207	Candy and related products..	54	29	5,786	25,420	4,778	9,110	17,844	70,694	1,922	7,049	51,606
208	Beverages.....	149	43	4,275	24,230	2,034	4,263	10,740	54,560	2,870	4,273	40,952
209	Miscellaneous foods and kindred products.....	143	40	3,361	17,299	2,221	4,379	9,234	52,060	2,397	3,505	40,674
22	Textile mill products.....	444	275	41,686	185,856	36,024	73,306	141,377	316,293	14,271	^R 52,447	^R 322,125
221	Weaving mills, cotton.....	16	9	2,583	8,986	2,397	5,149	8,197	11,418	(Z)	^R 7,453	^R 23,798
222	Weaving mills, synthetics...	25	19	3,913	15,733	3,537	7,183	13,725	25,940	1,221	4,608	25,079
223	Weaving, finishing mills, wool.....	58	49	7,856	33,488	7,090	14,373	26,169	60,118	1,779	9,894	64,985
224	Narrow fabric mills.....	37	20	2,238	9,153	3,813	7,570	14,943	(Z)	3,200	18,567	
225	Knitting mills.....	48	31	5,717	24,968	4,815	9,227	16,582	46,330	2,243	5,695	37,398
226	Textile finishing, except wool.....	49	33	5,823	29,063	4,630	9,542	20,431	41,642	2,157	6,640	44,779
227	Floor covering mills.....	22	11	1,548	7,263	1,295	2,652	5,301	13,116	(Z)	1,505	10,557
228	Yarn and thread mills.....	48	36	3,503	14,085	3,123	6,392	11,592	20,253	757	3,782	22,474
229	Miscellaneous textile goods.	141	67	8,505	43,117	7,162	14,975	31,810	82,533	5,162	9,670	74,488
23	Apparel and related products..	1,121	606	56,853	192,842	49,430	85,818	150,117	322,193	4,656	59,586	282,747
231	Men's and boys' suits and coats.....	86	46	6,194	24,049	5,469	9,444	18,597	41,002	(Z)	8,374	36,936
232	Men's and boys' furnishings.	95	47	4,920	15,998	4,500	8,042	13,178	28,263	(Z)	5,936	26,546
233	Women's and misses' outerwear.....	451	285	21,503	74,466	19,139	32,586	58,190	129,966	2,063	22,549	108,982
234	Women's and children's underwear.....	44	33	3,368	11,814	3,406	6,142	9,610	16,248	(Z)	4,689	19,992
236	Children's outerwear.....	54	34	3,049	10,215	2,721	4,732	8,097	15,394	(Z)	2,955	13,632
238	Miscellaneous apparel.....	85	49	4,664	16,739	4,095	6,833	12,904	29,673	(Z)	4,887	22,225
239	Fabricated textiles, n.e.c....	258	98	8,990	30,205	7,741	14,031	22,093	46,987	958	7,744	41,076
24	Lumber and wood products.....	424	77	5,981	26,875	4,898	9,672	19,502	45,836	2,472	5,900	36,084
242	Sawmills and planing mills..	105	4	697	2,608	590	1,168	2,078	4,664	(Z)	741	3,898
243	Millwork and related products.....	125	26	1,503	7,795	1,181	2,319	5,275	14,125	560	1,409	9,588
244	Wooden containers.....	45	8	649	2,315	557	1,138	1,801	4,579	(Z)	1,014	3,864
249	Miscellaneous wood products.	125	38	2,925	13,594	2,389	4,709	9,858	21,371	1,127	2,613	17,223
25	Furniture and fixtures.....	393	133	11,673	52,108	9,643	18,724	37,915	86,343	2,306	10,804	67,864
251	Household furniture.....	288	109	9,533	40,706	8,038	15,403	30,541	68,062	1,797	9,079	56,974
254	Partitions and fixtures.....	61	14	1,090	5,658	885	1,842	4,005	8,353	(Z)	797	5,583
259	Furniture and fixtures, n.e.c....	29	6	540	3,001	448	928	2,113	5,360	(Z)	515	3,276
26	Paper and allied products....	370	233	35,179	199,188	27,173	58,322	137,897	363,426	23,251	35,524	294,334
262	Paper mills, except building	44	42	10,684	68,601	8,439	19,506	49,598	124,873	10,149	10,869	95,145
264	Paper and paperboard products.....	164	83	12,568	65,973	9,126	18,592	41,870	127,274	6,662	12,723	107,877
265	Paperboard containers and boxes.....	150	97	10,489	55,338	8,419	17,460	39,279	95,070	5,430	10,437	79,134
27	Printing and publishing.....	1,262	284	40,157	226,308	25,960	50,320	139,193	435,226	17,294	37,166	319,188
271	Newspapers.....	188	56	12,953	77,116	6,393	11,899	40,335	131,831	3,449	11,928	100,244
272	Periodicals.....	73	6	664	3,864	164	299	718	9,805	(Z)	707	7,818
273	Books.....	75	30	6,432	39,405	4,160	8,230	22,807	125,447	5,302	4,755	64,499
274	Miscellaneous publishing....	34	6	567	2,666	314	660	1,395	4,211	(Z)	703	6,376
275	Commercial printing.....	685	124	11,529	63,428	9,107	18,056	47,330	98,167	5,440	10,832	79,145
276	Manifold business forms....	13	5	777	4,456	461	973	2,485	6,558	(Z)	956	6,857
277	Greeting card manufacturing.	21	7	2,629	10,805	1,616	3,118	5,394	20,696	925	2,715	22,217
278	Bookbinding and related work	69	23	3,066	13,873	2,577	4,806	10,464	23,915	1,147	3,003	19,501
279	Printing trades services....	104	27	1,540	10,695	1,168	2,279	8,265	14,596	(Z)	1,567	12,531
28	Chemicals and allied products.	454	130	16,206	104,904	10,765	21,679	59,506	279,676	22,412	15,532	225,729
281	Basic chemicals.....	47	21	2,046	13,716	1,514	2,930	9,298	34,902	3,563	2,294	27,402
283	Drugs.....	34	8	836	4,090	522	974	1,939	12,733	564	1,058	12,925
284	Cleaning and toilet goods...	124	21	2,829	19,107	1,579	3,236	8,317	88,837	3,282	3,557	91,232
285	Paints and allied products...	75	27	1,694	10,056	1,080	2,143	5,273	28,244	1,133	1,706	22,200
287	Agricultural chemicals.....	14	7	357	1,811	224	436	1,019	4,816	(Z)	348	2,849
289	Miscellaneous chemical products.....	95	20	2,330	15,204	1,542	3,025	8,935	31,809	2,676	2,487	28,283
29	Petroleum and coal products...	57	16	1,430	8,857	989	2,268	5,366	21,117	1,359	1,582	17,251
30	Rubber and plastics products, n.e.c....	344	182	32,715	175,087	25,859	50,578	119,272	298,272	15,566	34,679	281,894
306	Rubber products, n.e.c....	77	46	11,717	69,510	8,395	17,200	43,565	128,389	3,877	13,945	120,155
31	Leather and leather products..	647	337	49,707	199,653	43,629	77,212	153,538	311,639	4,167	61,062	342,203
311	Leather tanning and finishing.....	162	60	5,994	32,075	5,255	9,988	25,018	54,680	1,198	7,556	63,847
313	Footwear cut stock.....	189	85	5,694	22,337	4,876	9,118	15,887	39,483	558	7,213	42,382
314	Footwear, except rubber....	193	154	34,028	129,641	30,128	51,863	101,728	191,710	1,992	41,071	208,619
316	Luggage.....	21	7	505	1,664	428	755	1,352	2,288	(Z)	657	3,086
317	Purses and small leather goods.....	41	23	2,974	11,988	2,531	4,680	8,278	20,159	(Z)	3,837	19,207
319	Leather goods, n.e.c....	27	6	380	1,248	307	605	853	2,180	(Z)	362	1,730

See Footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manuf- acture (\$1,000)	Capital expendi- tures, new ¹ (\$1,000)	All employ- ees, number	Value added by manuf- acture (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
32	Stone, clay and glass products.	315	89	11,174	70,819	7,791	15,766	42,326	147,894	8,680	11,023	107,065
327	Concrete and plaster products	171	39	3,248	19,319	2,348	5,165	12,692	50,258	4,346	2,605	33,592
328	Out stone and stone products.	24	6	515	2,999	387	795	2,024	4,480	(Z)	704	5,051
329	Nonmetallic mineral products.	71	30	6,514	44,212	4,338	8,429	24,719	87,944	3,604	6,815	62,863
33	Primary metal industries.....	249	143	21,749	129,558	16,943	34,237	93,340	200,493	9,931	22,724	184,040
331	Steel rolling and finishing..	30	25	4,371	29,753	3,479	6,589	22,120	41,401	1,718	6,165	53,125
332	Iron and steel foundries.....	50	33	3,045	16,821	2,743	5,555	14,141	26,988	1,034	3,896	25,932
335	Nonferrous rolling and drawing.....	47	40	8,162	42,710	6,069	12,527	29,138	71,842	4,732	6,814	55,894
336	Nonferrous foundries.....	75	22	1,625	8,413	1,401	2,791	6,502	12,614	579	1,690	10,793
339	Primary metal industries, n.e.c.....	30	17	4,316	30,406	3,111	6,432	20,651	39,747	1,713	3,900	32,291
34	Fabricated metal products.....	1,103	378	39,878	223,218	30,395	62,858	151,750	454,665	20,048	40,941	356,402
342	Cutlery, hand tools, hardware	108	45	9,448	52,034	7,287	14,469	37,126	171,148	9,230	10,268	120,520
344	Structural metal products.....	368	116	8,012	47,427	6,134	12,757	31,823	75,623	2,855	7,955	65,725
345	Screw machine products.....	110	39	6,459	35,922	4,968	10,723	25,144	58,622	2,297	6,465	47,431
346	Metal stampings.....	113	50	3,469	18,439	2,770	5,803	12,747	28,916	950	3,553	23,377
347	Metal services, n.e.c.....	195	51	2,876	13,839	2,403	4,904	10,269	21,357	1,095	2,432	15,372
348	Fabricated wire products, n.e.c.....	54	22	1,523	6,813	1,234	2,520	4,875	12,709	(Z)	2,219	15,233
349	Fabricated metal products, n.e.c.....	114	42	6,669	40,230	4,490	9,316	23,967	69,082	2,584	6,687	55,983
35	Machinery, except electrical... Construction and like equipment.....	1,379	380	68,050	431,911	47,741	98,341	274,162	722,107	31,284	66,266	558,375
353	Construction and like equipment.....	41	17	1,729	10,617	1,212	2,465	6,659	19,626	501	1,739	15,252
354	Metal working machinery.....	392	89	14,920	95,139	10,980	22,911	63,340	148,799	6,135	14,997	121,220
355	Special industry machinery.....	234	93	20,081	126,468	13,475	27,950	74,783	199,630	8,084	20,879	142,700
356	General industrial machinery.	177	58	9,223	54,688	6,525	13,227	35,846	93,788	2,984	9,055	79,604
357	Office machines, n.e.c.....	32	20	4,321	27,438	2,947	6,526	16,814	63,955	3,078	2,323	17,925
358	Service industry machines....	50	24	4,218	25,829	2,990	6,010	16,213	48,447	1,631	4,775	50,198
36	Electrical machinery.....	533	275	96,066	566,819	63,399	126,272	316,847	965,798	36,336	^R 76,367	^R 646,931
361	Electric distribution products.....	49	27	10,241	70,499	6,310	12,927	35,998	128,433	4,747	13,541	131,391
362	Electric industrial apparatus	55	22	3,593	14,179	2,640	5,012	8,478	25,427	771	^R 2,184	^R 16,399
364	Lighting and wiring devices..	95	46	9,051	43,879	7,182	14,030	32,041	99,082	4,696	^R 8,126	^R 80,944
365	Radio and TV receiving equipment.....	18	7	1,820	7,482	1,500	2,735	5,438	15,856	(Z)	1,406	11,190
366	Communication equipment.....	84	53	40,123	270,405	23,265	47,159	136,197	448,980	13,638	^R 17,842	^R 196,955
367	Electronic components.....	167	87	26,568	136,941	18,929	37,461	82,900	196,701	9,590	29,333	179,313
37	Transportation equipment.....	186	56	19,061	140,647	12,053	25,471	80,475	243,387	6,775	22,830	214,656
371	Motor vehicles and equipment.	58	20	3,185	22,429	2,559	6,168	16,879	72,321	2,768	2,923	26,047
38	Instruments and related products.....	225	98	28,803	171,790	18,853	37,780	93,912	345,066	21,603	21,012	210,045
381	Scientific instruments.....	41	18	2,937	18,033	1,855	3,758	9,482	28,343	1,872	2,519	21,398
382	Mechanical measuring devices.	40	20	10,218	65,808	5,770	12,027	32,235	115,362	4,161	7,044	60,171
384	Medical instruments and supplies.....	67	23	2,108	10,152	1,676	3,305	6,915	18,333	776	1,448	9,714
386	Photographic equipment.....	22	8	5,038	33,077	2,872	5,838	15,259	78,244	(D)	2,938	50,522
39	Miscellaneous manufacturing, including ordnance ³	550	197	32,431	158,759	24,818	48,786	103,197	302,983	8,647	^R 34,099	^R 250,180
391	Jewelry and silverware.....	113	47	7,341	38,522	5,471	11,233	22,664	62,572	2,878	6,514	44,026
393	Musical instruments and parts	18	5	317	1,773	258	524	1,279	2,976	(Z)	371	2,230
394	Toys and sporting goods.....	98	44	7,189	29,921	5,660	10,484	20,118	68,686	1,990	6,950	44,215
395	Pens, pencils and office supplies.....	46	7	833	4,104	659	1,284	3,009	13,287	(Z)	690	6,129
396	Costume jewelry and notions..	60	24	4,010	17,337	3,455	6,832	12,196	36,415	(Z)	4,339	29,631
398												
399	Miscellaneous manufactures ³ ..	215	70	12,741	67,102	9,315	18,429	43,931	119,047	2,879	^R 15,235	^R 123,949
190												
--	Administrative and auxiliary ⁴ ..	-	-	28,202	251,814	-	-	-	-	-	^R 22,731	-

- Represents zero. n.e.c. Not elsewhere classified. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. Revised.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new* (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		BOSTON SMSA (Consists of Boston, Chelsea, Revere cities and Winthrop town in Suffolk County, Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham and Woburn cities and Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County, Beverly, Lynn, Peabody, and Salem cities and Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middletown, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex County, Quincy city and Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Holbrook, Medfield, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth towns in Norfolk County and Duxbury, Hanover, Hingham, Hull, Marshfield, Norwell, Pembroke, Rockland, and Scituate towns in Plymouth County, Mass.)										
	All industries, total ²	5,386	1,905	295,905	1,777,374	194,261	381,842	969,787	3,009,156	124,972	301,049	2,422,089
20	Food and kindred products.....	488	193	24,973	133,224	16,532	33,365	77,981	328,465	14,046	30,654	264,437
201	Meat products.....	50	24	3,432	21,661	2,688	5,730	14,932	44,181	833	4,289	43,948
202	Dairies.....	76	30	3,403	17,913	1,511	3,177	7,522	61,785	4,061	4,715	39,560
203	Canned and frozen foods.....	60	24	1,928	8,795	1,410	2,720	5,205	21,661	670	1,977	17,180
205	Bakery products.....	108	39	5,217	27,209	3,106	6,422	15,196	45,903	3,414	6,798	47,947
207	Candy and related products..	41	25	5,403	24,109	4,494	8,551	16,944	68,245	1,852	6,678	48,973
208	Beverages.....	62	21	2,628	15,484	1,306	2,702	7,270	34,735	1,510	2,347	23,900
209	Miscellaneous foods and kindred products.....	76	21	1,658	8,823	1,131	2,208	4,976	25,309	924	2,203	23,645
22	Textile mill products.....	101	36	5,002	24,611	3,915	8,002	16,127	48,450	4,012	6,515	46,865
223	Weaving, finishing mills, wool.....	7	5	538	2,795	471	995	1,948	6,713	(Z)	724	4,212
225	Knitting mills.....	17	7	947	3,888	742	1,316	2,170	7,384	(Z)	1,385	10,961
229	Miscellaneous textile goods..	52	16	1,372	7,154	1,059	2,299	4,933	15,385	2,338	2,661	18,745
23	Apparel and related products..	639	282	21,200	82,716	18,042	31,488	59,835	153,695	2,373	25,681	137,153
231	Men's and boys' suits and coats.....	61	29	3,250	12,987	2,841	4,716	9,882	22,128	(Z)	5,159	23,801
232	Men's and boys' furnishings..	53	16	954	3,690	798	1,346	2,484	7,754	(Z)	1,335	7,175
233	Women's and misses' outerwear.....	258	141	8,942	36,697	7,522	13,377	26,353	74,903	1,296	10,878	64,600
234	Women's and children's underwear.....	14	7	610	2,496	533	900	1,825	4,170	(Z)	650	3,555
236	Children's outerwear.....	25	14	826	3,047	709	1,289	2,234	4,175	(Z)	689	3,252
238	Miscellaneous apparel.....	45	24	2,714	10,444	2,354	3,853	7,652	19,849	(Z)	3,021	14,181
239	Fabricated textiles, n.e.c.....	158	43	3,182	10,711	2,688	4,958	7,663	16,388	(Z)	2,878	16,100
25	Furniture and fixtures.....	196	46	3,523	17,406	2,867	5,622	12,477	29,570	665	3,754	25,444
251	Household furniture.....	129	31	2,348	11,080	1,916	3,640	8,048	19,932	(Z)	2,808	19,309
254	Partitions and fixtures.....	41	9	784	4,040	641	1,351	2,873	5,808	(Z)	511	3,707
259	Furniture and fixtures, n.e.c.....	18	4	323	2,031	254	519	1,355	3,373	(Z)	232	1,562
26	Paper and allied products.....	139	78	10,581	54,842	7,794	16,264	36,639	99,705	5,398	10,385	84,372
264	Paper and paperboard products	73	32	4,815	22,747	3,112	6,191	12,729	41,405	1,596	4,715	36,971
265	Paperboard containers and boxes.....	60	41	4,921	26,344	3,974	8,365	19,458	46,950	2,850	4,721	39,247
27	Printing and publishing.....	758	158	23,568	143,079	14,420	27,713	84,075	287,339	9,182	22,587	213,359
271	Newspapers.....	89	22	7,785	51,258	4,022	7,355	27,243	75,345	1,284	7,633	66,305
272	Periodicals.....	57	6	3,585	16,013	1,623	2,993	6,913	9,038	(Z)	604	6,713
273	Books.....	58	24	4,540	28,566	2,568	5,073	14,443	107,327	3,496	3,256	54,331
274	Miscellaneous publishing.....	25	3	375	2,037	200	437	940	3,203	(Z)	528	5,214
275	Commercial printing.....	393	66	6,259	35,598	4,903	9,440	27,011	55,261	3,085	6,225	46,180
276	Manifold business forms.....	11	3	414	2,427	324	524	1,379	3,699	(Z)	500	3,762
277	Greeting card manufacturing..	11	3	1,610	7,546	704	1,455	2,954	16,348	(Z)	1,725	15,831
278	Bookbinding and related work.	47	10	829	3,747	732	1,396	2,910	5,264	(Z)	923	5,082
279	Printing trades services.....	67	21	1,155	8,315	886	1,740	6,504	11,264	(Z)	1,193	9,941
28	Chemicals and allied products..	269	77	7,433	48,986	4,693	9,235	26,423	133,321	7,068	8,685	124,231
281	Basic chemicals.....	25	12	1,411	9,711	1,035	2,001	6,500	18,073	1,609	1,660	20,069
282	Fibers, plastics, rubbers.....	12	2	285	1,863	129	261	660	4,023	(Z)	275	2,922
284	Cleaning and toilet goods.....	88	16	1,793	13,135	951	1,974	5,448	52,166	2,827	2,519	50,636
285	Paints and allied products....	47	20	1,281	7,626	813	1,598	4,022	23,262	847	1,369	18,779
287	Agricultural chemicals.....	11	6	289	1,467	189	364	852	4,382	(Z)	242	1,904
289	Miscellaneous chemicals products.....	62	18	2,105	13,864	1,430	2,781	8,378	28,548	1,440	2,192	25,460
29	Petroleum and coal products...	30	10	928	5,568	667	1,499	3,634	14,421	750	(D)	(D)
30	Rubber and plastics products, n.e.c.....	134	64	17,032	94,638	13,075	25,375	61,348	161,391	7,922	16,514	136,962
302	Rubber footwear.....	5	4	6,835	35,606	5,959	11,079	26,994	43,590	2,752	5,266	42,025
306	Rubber products, n.e.c.....	51	28	7,459	44,733	5,005	10,078	25,587	89,268	2,458	9,194	79,722
307	Plastics products, n.e.c.....	78	32	2,738	14,299	2,111	4,218	8,767	28,533	2,712	2,054	15,215
31	Leather and leather products..	320	146	18,896	83,775	16,327	29,041	62,991	140,335	1,997	(D)	(D)
311	Leather tanning and finishing	123	46	4,820	25,696	4,189	7,774	20,012	44,065	1,022	5,912	51,405
312	Footwear cut stock.....	76	31	2,062	8,513	1,736	3,313	5,679	17,159	(Z)	3,023	17,518
314	Footwear, except rubber.....	74	51	11,131	46,442	9,661	16,557	35,151	72,921	721	(D)	(D)
317	Purses and small leather goods.....	24	12	558	1,937	484	868	1,353	3,957	(Z)	1,191	5,698
32	Stone, clay and glass products.	129	39	3,172	18,364	2,245	4,630	11,082	39,701	2,804	3,315	36,677
327	Concrete and plaster products	54	19	1,362	8,664	936	2,044	5,408	23,186	1,950	1,244	20,196
329	Nonmetallic mineral products.	35	15	1,415	7,740	1,006	1,991	4,290	13,509	709	1,498	12,612
33	Primary metal industries.....	81	45	3,980	23,670	2,962	5,532	14,939	40,744	2,696	4,957	36,787
331	Steel rolling and finishing....	9	8	543	3,043	418	789	2,464	5,655	(Z)	1,085	8,171
332	Iron and steel foundries.....	14	11	855	4,925	705	1,403	3,753	7,571	(Z)	1,571	12,566
336	Nonferrous foundries.....	31	11	495	2,806	421	831	2,103	4,032	(Z)	786	5,029

See footnotes at end of table.

MASSACHUSETTS

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BOSTON SMSA—Continued												
34	Fabricated metal products.....	558	182	17,733	104,773	13,371	27,420	70,040	248,878	12,164	17,519	177,416
342	Cutlery, hand tools, hardware	35	10	2,841	17,541	2,105	4,067	11,219	105,377	7,304	2,891	61,635
343	Plumbing and heating, except electric.....	24	5	377	2,006	289	539	1,257	3,300	(Z)	342	3,111
344	Structural metal products....	221	73	4,497	27,050	3,492	7,146	18,644	40,382	1,217	4,716	38,137
345	Screw machine products.....	53	18	3,297	20,366	2,499	5,404	14,089	33,587	920	3,347	26,221
346	Metal stampings.....	48	19	1,441	7,792	1,136	2,503	5,363	12,340	(Z)	1,310	9,537
347	Metal services, n.e.c.....	82	22	1,206	5,956	971	1,976	4,303	9,173	(Z)	987	6,335
349	Fabricated metal products, n.e.c.....	72	23	3,270	19,415	2,212	4,381	11,748	33,410	1,452	3,125	25,858
35	Machinery, except electrical... Construction and like equipment.....	612	178	27,190	178,699	18,637	37,871	111,924	301,346	14,274	25,785	232,605
355	Special industry machinery...	30	15	1,497	9,214	1,053	2,096	5,825	18,343	(Z)	1,486	13,282
356	General industrial machinery...	85	30	6,010	40,029	3,789	7,635	22,596	57,992	1,996	6,806	53,680
357	Office machines, n.e.c.....	91	33	5,385	32,092	3,726	7,459	20,408	54,335	1,774	4,766	40,381
358	Service industry machines....	24	16	3,112	20,472	2,092	4,612	12,878	45,895	2,235	1,970	13,132
359	Miscellaneous machinery.....	28	14	1,095	7,497	729	1,490	4,027	15,090	729	742	6,943
36	Electrical machinery.....	237	46	3,364	19,886	2,586	5,340	13,977	29,664	2,215	2,609	17,061
361	Electric distribution products.....	356	186	47,153	294,498	32,195	65,108	169,548	482,375	16,762	42,679	370,874
362	Electric industrial apparatus	42	17	4,514	28,679	2,891	5,658	13,566	50,155	1,318	6,394	61,248
363	Household appliances.....	27	13	1,473	7,766	989	1,918	4,160	12,669	(Z)	842	7,716
364	Lighting and wiring devices...	11	5	569	4,125	466	927	2,580	10,405	(D)	736	7,397
366	Communication equipment.....	62	32	5,704	28,994	4,496	8,839	20,725	68,992	3,692	5,447	61,660
367	Electronic components.....	67	41	16,069	124,376	9,802	20,171	65,527	184,307	4,018	8,422	97,230
37	Transportation equipment.....	106	59	16,492	89,774	11,736	23,889	55,420	134,809	6,095	18,363	123,032
38	Instruments and related products.....	83	31	16,189	124,779	9,681	20,307	68,365	219,778	5,598	19,856	196,147
381	Scientific instruments.....	152	61	17,428	110,853	10,894	21,764	57,456	209,351	15,227	11,748	118,502
382	Mechanical measuring devices.	28	11	2,549	16,010	1,586	3,210	8,288	25,080	1,773	2,266	19,637
383	Optical instruments and lenses.....	15	5	5,593	39,684	3,183	6,707	19,890	61,429	2,061	3,960	27,519
384	Medical instruments and supplies.....	17	7	688	5,021	443	788	2,602	9,427	(Z)	626	6,421
39	Miscellaneous manufacturing, including ordnance ³	49	19	1,497	7,342	1,127	2,158	4,601	13,577	(Z)	1,224	8,996
391	Jewelry and silverware.....	213	61	5,370	26,139	4,188	8,135	17,589	52,420	1,254	5,214	40,242
394	Toys and sporting goods.....	28	5	444	1,688	346	627	1,177	2,979	(Z)	244	1,801
395	Pens, pencils and office supplies.....	30	11	1,215	5,771	956	1,728	3,453	11,794	(Z)	1,064	9,174
398	Miscellaneous manufactures ³ ..	22	6	658	3,110	523	1,010	2,333	11,327	(Z)	525	4,785
399		99	31	2,570	13,171	1,975	4,005	8,971	21,901	534	2,816	21,086
190		--	-	-	22,337	196,103	-	-	-	-	-	17,920
--	Administrative and auxiliary ⁴ ..	-	-	22,337	196,103	-	-	-	-	-	17,920	-
LAWRENCE-HAVERHILL SMSA (Consists of Lawrence and Haverhill cities and Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, and West Newbury towns in Essex County, Mass., and Newton, Plaistow and Salem towns in Rockingham County, N.H.)												
22	All industries, total ²	469	188	41,787	213,111	30,354	58,153	131,705	359,089	16,312	36,361	268,186
23	Textile mill products.....	32	21	3,394	16,920	2,798	5,745	12,012	30,810	823	3,909	32,462
26	Apparel and related products...	21	11	1,719	6,890	1,543	2,720	5,636	11,074	(Z)	2,025	8,707
30	Paper and allied products.....	16	10	1,841	11,004	1,508	3,470	8,285	17,398	1,555	2,375	16,861
31	Rubber and plastics products, n.e.c.....	19	11	1,429	6,687	1,203	2,316	4,829	11,041	588	1,706	11,049
34	Leather and leather products...	114	63	8,447	31,493	7,566	12,886	25,165	45,822	656	10,287	53,266
35	Fabricated metal products.....	23	7	618	3,833	449	895	1,825	5,975	(Z)	1,116	9,572
--	Machinery, except electrical...	46	16	1,515	8,455	1,133	2,545	5,094	15,377	(Z)	1,511	9,728
--	Administrative and auxiliary ⁴ ..	-	-	648	5,918	-	-	-	-	-	253	-
PROVIDENCE SMSA ("All manufacturing" totals for the Providence Standard Metropolitan Statistical Area (which includes parts of Bristol, Norfolk, and Worcester Counties in Massachusetts) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Rhode Island.)												

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
SPRINGFIELD-HOLYOKE SMSA (Consists of Chicopee, Holyoke, Springfield, and Westfield Cities and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County, Northampton city, and Easthampton, Granby, Hadley, and South Hadley towns in Hampshire County, and Warren town in Worcester County, Mass.; also Somers town in Tolland County, Conn.)												
	All industries, total ²	965	388	68,800	387,238	50,180	99,734	242,659	679,775	28,636	^T 71,838	^T 597,404
20	Food and kindred products.....	108	30	3,123	15,846	1,522	3,312	7,157	34,520	1,322	3,991	30,216
202	Dairies.....	35	11	1,071	5,001	402	810	1,767	11,225	(Z)	1,021	7,722
205	Bakery products.....	26	7	1,033	5,390	565	1,309	2,799	11,105	(Z)	1,516	11,265
208	Beverages.....	22	7	563	3,146	266	602	1,435	7,949	609	622	5,837
22	Textile mill products.....	30	24	3,217	13,890	2,730	5,725	10,444	24,159	936	^T 4,955	^T 33,042
229	Miscellaneous textile goods..	7	5	411	1,870	359	776	1,491	3,938	(Z)	446	3,127
23	Apparel and related products...	52	33	4,933	17,978	4,417	7,952	14,198	28,656	(Z)	4,187	20,796
233	Women's and misses' outerwear...	16	12	983	3,405	927	1,528	2,752	5,849	(Z)	622	3,110
235	Millinery, hats and caps.....	5	4	556	1,683	508	841	1,491	2,432	(Z)	451	1,817
236	Children's outerwear.....	5	4	911	3,318	808	1,441	2,646	5,434	(Z)	1,071	5,471
239	Fabricated textiles, n.e.c....	15	7	1,385	5,901	1,129	2,181	4,024	9,372	(Z)	782	6,251
24	Lumber and wood products.....	35	8	903	4,373	718	1,438	3,088	8,103	609	820	5,583
249	Miscellaneous wood products..	9	3	644	3,232	505	1,003	2,210	6,390	(D)	583	4,101
25	Furniture and fixtures.....	21	8	707	2,979	566	840	2,170	4,714	(Z)	723	4,707
251	Household furniture.....	12	6	652	2,657	524	754	1,965	4,208	(Z)	633	4,184
26	Paper and allied products.....	73	51	8,463	48,257	6,592	14,040	33,731	90,072	5,753	7,771	68,113
262	Paper mills, except building...	11	11	3,289	18,343	2,548	5,599	13,155	29,526	1,675	2,877	23,478
264	Paper and paperboard products	38	26	3,658	21,104	2,839	5,920	14,322	46,046	3,428	3,661	34,654
27	Printing and publishing.....	121	38	5,549	26,566	3,560	6,702	16,750	53,904	2,922	4,900	39,216
275	Commercial printing.....	70	16	1,306	6,769	1,054	2,109	4,898	10,903	566	1,300	11,109
278	Bookbinding and related work.	10	9	1,707	8,167	1,408	2,614	6,222	15,409	(D)	1,456	12,050
28	Chemicals and allied products..	34	12	3,640	25,830	2,400	4,807	14,867	72,838	5,391	3,787	70,265
284	Cleaning and toilet goods....	12	4	915	5,388	568	1,136	2,627	35,805	(Z)	802	39,018
30	Rubber and plastics products, n.e.c.....	28	19	2,915	17,038	2,274	4,232	11,392	25,519	996	3,901	43,145
32	Stone, clay and glass products.	32	6	399	2,703	273	613	1,633	6,012	(Z)	519	4,551
33	Primary metal industries.....	37	25	3,685	21,706	3,162	6,443	17,383	29,131	1,131	2,931	21,374
332	Iron and steel foundries.....	5	3	377	2,237	349	694	1,978	3,007	(Z)	313	1,789
336	Nonferrous foundries.....	14	6	780	3,762	675	1,364	2,923	5,756	(Z)	435	2,461
34	Fabricated metal products.....	115	39	4,735	27,856	3,726	7,974	19,550	48,053	1,460	6,410	51,743
342	Cutlery, hand tools, hardware	13	9	1,350	8,063	1,140	2,370	6,123	14,884	(Z)	1,292	11,704
343	Plumbing and heating, except electric.....	5	2	540	3,355	402	900	2,195	5,897	(Z)	549	4,656
344	Structural metal products....	35	10	868	5,400	646	1,295	3,396	8,560	(Z)	747	6,823
347	Metal services, n.e.c.....	28	5	392	2,201	339	697	1,753	3,629	(Z)	336	2,457
35	Machinery, except electrical...	174	50	11,266	69,717	7,982	16,237	45,849	121,804	4,077	11,572	104,657
354	Metalworking machinery.....	69	18	1,628	10,639	1,255	2,753	7,568	15,815	703	1,472	10,031
355	Special industry machinery...	23	10	1,530	10,147	935	1,862	5,472	19,481	(Z)	2,097	17,041
356	General industrial machinery.	32	12	2,684	15,776	1,918	4,007	10,555	27,959	895	1,958	16,769
359	Miscellaneous machinery.....	39	5	408	2,324	346	713	1,900	3,890	(Z)	398	3,999
36	Electrical machinery.....	28	12	3,771	16,427	2,899	5,185	10,423	25,013	(Z)	3,700	24,294
369	Electrical products, n.e.c....	6	5	961	4,750	738	1,329	3,261	6,599	(Z)	1,364	11,584
37	Transportation equipment.....	12	5	722	4,313	582	1,208	3,293	6,345	(Z)	1,063	6,790
38	Instruments and related products.....	11	5	1,188	7,667	632	1,307	3,608	13,563	(Z)	933	10,566
39	Miscellaneous manufacturing, including ordnance ³	45	20	6,777	33,748	5,412	10,351	23,923	77,669	1,983	7,040	51,504
394	Toys and sporting goods.....	13	8	2,793	12,496	2,247	4,107	8,457	33,418	702	2,762	19,654
399	Miscellaneous manufactures ³ ..	24	11	3,905	20,752	3,109	6,127	14,841	43,201	1,243	4,053	30,202
190	Administrative and auxiliary ⁴ ..	-	-	1,838	25,046	-	-	-	-	-	1,739	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued
(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
WORCESTER SMSA (Consists of Worcester city and Auburn, Berlin, Boylston, Brookfield, East Brookfield, Crafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Westborough, and West Boylston towns in Worcester County, Mass.)												
	All industries, total ²	773	296	47,582	267,148	34,050	67,409	167,060	436,005	17,278	51,124	377,725
20	Food and kindred products.....	72	18	2,090	10,554	1,039	2,094	4,485	24,998	1,145	2,363	23,370
202	Dairies.....	27	5	581	2,608	273	572	944	7,485	(Z)	661	5,679
205	Bakery products.....	13	5	989	5,379	461	942	2,277	11,849	687	1,021	10,084
22	Textile mill products.....	49	32	2,694	12,474	2,391	4,928	9,848	18,946	767	3,002	20,854
223	Weaving, finishing mills, wool.....	6	6	606	2,864	560	1,190	2,410	3,914	(Z)	468	4,622
225	Knitting mills.....	6	5	499	2,028	437	778	1,552	2,950	(Z)	774	3,392
228	Yarn and thread mills.....	10	8	473	2,160	436	974	1,816	3,069	(Z)	521	3,253
229	Miscellaneous textile goods..	17	8	629	3,138	521	1,082	2,285	5,330	(Z)	683	6,037
23	Apparel and related products..	55	26	2,391	8,199	2,072	3,716	6,559	11,790	(Z)	2,632	13,199
232	Men's and boys' furnishings..	8	6	251	801	218	400	596	1,021	(Z)	419	1,667
233	Women's and misses' outerwear	16	9	533	1,872	475	798	1,427	2,834	(Z)	449	2,331
239	Fabricated textiles, n.e.c....	16	3	287	905	237	448	668	1,716	(Z)	189	958
25	Furniture and fixtures.....	18	10	1,150	4,602	838	1,367	2,614	8,249	(Z)	307	2,248
251	Household furniture.....	13	8	745	2,278	652	989	1,681	4,287	(Z)	200	1,598
26	Paper and allied products.....	19	12	1,369	6,897	1,070	2,044	4,613	9,995	(Z)	1,960	13,255
264	Paper and paperboard products	12	8	927	4,956	728	1,436	3,169	5,683	(Z)	1,396	9,635
27	Printing and publishing.....	65	14	1,940	10,494	1,229	2,471	6,032	18,187	916	1,871	13,034
275	Commercial printing.....	36	9	600	3,594	429	890	2,233	5,134	(Z)	596	3,948
28	Chemicals and allied products..	31	9	920	4,863	656	1,358	2,836	13,049	937	648	7,830
30	Rubber and plastics products, n.e.c.....	23	7	939	4,171	790	1,580	3,135	7,800	(Z)	919	6,333
31	Leather and leather products...	29	20	2,653	9,433	2,314	3,846	7,027	13,077	(Z)	3,241	16,445
313	Footwear cut stock.....	7	5	405	1,758	353	664	1,149	2,521	(Z)	311	1,961
314	Footwear, except rubber.....	10	10	1,999	6,776	1,751	2,791	5,215	9,127	(Z)	2,449	10,405
33	Primary metal industries.....	32	22	6,798	45,772	4,815	9,461	31,488	62,106	2,111	7,978	68,906
331	Steel rolling and finishing..	10	7	2,424	17,875	1,905	3,537	13,262	21,887	(Z)	3,379	31,165
335	Nonferrous rolling and drawing.....	7	6	1,386	6,292	859	1,708	4,522	10,825	565	1,241	12,186
34	Fabricated metal products.....	133	56	5,675	29,417	4,261	9,018	19,416	48,408	2,478	5,040	35,392
342	Cutlery, hand tools, hardware	19	7	721	3,654	604	1,232	2,637	5,888	(Z)	1,568	11,589
344	Structural metal products.....	27	10	488	2,645	391	851	1,931	4,148	(Z)	337	2,761
345	Screw machine products.....	18	9	1,373	6,509	1,083	2,332	4,506	9,322	519	1,387	8,503
346	Metal stampings.....	19	10	819	4,277	633	1,297	2,883	6,558	(Z)	871	5,563
348	Fabricated wire products, n.e.c.....	15	6	579	2,274	454	944	1,596	5,240	(Z)	361	2,806
349	Fabricated metal products, n.e.c.....	13	7	1,377	8,561	834	1,818	4,789	14,704	578	247	2,347
35	Machinery, except electrical...	129	36	10,993	70,340	7,237	15,044	40,325	107,693	3,816	12,450	85,161
354	Metalworking machinery.....	53	12	4,213	29,026	2,675	5,601	15,697	44,789	1,920	4,602	39,286
355	Special industrial machinery...	30	13	5,783	35,213	3,781	7,867	20,214	51,993	1,482	6,496	33,581
356	General industrial machinery.	15	3	507	3,129	394	770	2,394	5,916	(Z)	971	9,330
359	Miscellaneous machinery.....	26	6	280	1,774	224	459	1,252	2,613	(Z)	164	1,092
36	Electrical machinery.....	16	4	405	2,037	298	590	1,264	2,744	(Z)	323	1,972
39	Miscellaneous manufacturing, including ordnance ³	39	12	1,481	6,991	1,113	2,296	4,685	10,864	(Z)	1,522	7,961
394	Toys and sporting goods.....	9	4	414	1,707	357	671	1,313	2,035	(Z)	529	2,596
--	Administrative and auxiliary ⁴ ..	-	-	351	2,247	-	-	-	-	-	45	-

¹Represents zero. n.e.c. Not elsewhere classified. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ²Revised.

³Includes expenditures for plants under construction but not in operation.

⁴The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

⁵Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁶In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S23

preliminary
report

Area series

MICHIGAN

Value added by manufacturing in 1963 in the State of Michigan amounted to \$13,004 million, an increase of 9 percent from 1962 and 56 percent from 1958. Of this total, \$5,068 million was contributed by the transportation equipment industries and \$1,758 million by the nonelectrical machinery industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.—GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	13,965	4,400	961,459	6,941,128	692,212	1,477,677	4,522,115	13,003,804	721,073	109	156
1962 ³	(NA)	(NA)	936,583	6,281,004	674,328	1,400,854	4,124,578	11,969,255	555,758	106	143
1961 ³	(NA)	(NA)	888,692	5,678,234	626,125	1,256,403	3,597,780	10,191,692	563,097	101	122
1960 ³	(NA)	(NA)	963,452	6,106,806	690,410	1,412,491	3,977,355	10,858,207	655,874	109	130
1959 ³	(NA)	(NA)	933,384	5,855,128	664,130	1,388,142	3,769,668	10,534,821	531,168	106	126
1958.....	13,429	3,990	880,428	5,164,299	608,856	1,204,072	3,184,797	8,363,614	465,273	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical area, and counties ¹	1963						1958				
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MICHIGAN, TOTAL.....	13,965	4,400	961,459	6,941,128	692,212	1,477,677	4,522,115	13,003,804	721,073	880,428	8,363,614
STANDARD METROPOLITAN STATISTICAL AREAS											
Ann Arbor ⁴	240	77	25,697	187,772	20,710	44,627	142,471	485,088	19,191	18,074	184,325
Bay City ⁵	177	54	9,919	62,980	7,798	16,110	47,205	137,412	6,065	9,315	89,694
Detroit ⁶	6,836	2,127	493,583	3,839,187	330,201	707,127	2,290,693	6,602,468	348,423	467,825	4,312,429
Flint ⁷	334	97	68,888	563,502	56,549	131,397	445,923	1,145,588	81,465	58,802	585,920
Grand Rapids ⁸	1,157	412	64,708	393,671	50,488	103,870	280,624	781,336	37,150	56,480	548,250
Jackson ⁹	281	104	16,402	107,058	12,430	25,473	73,644	195,449	9,032	14,904	150,359
Kalamazoo ¹⁰	297	126	25,918	171,606	17,643	37,093	103,304	368,437	15,568	25,063	278,059
Lansing ¹¹	348	107	28,854	223,149	21,746	49,431	162,278	473,777	27,300	25,795	283,700
Muskegon-Muskegon Heights ¹²	227	93	25,361	165,096	19,326	39,711	119,556	302,756	25,378	23,504	210,589
Saginaw ¹³	243	88	25,278	187,513	20,142	44,322	141,666	401,637	35,735	21,201	221,307
Toledo ¹⁴	992	327	71,065	487,303	50,006	102,729	313,086	921,934	42,883	70,838	715,535
Portion in Michigan.....	127	39	6,669	46,140	5,388	11,891	35,534	98,107	7,991	6,150	58,148
Portion in Ohio.....	865	288	64,396	441,163	44,618	90,838	277,552	823,827	34,892	64,688	657,387
COUNTIES ¹											
Allegan.....	105	28	3,885	20,973	3,123	6,634	15,445	39,496	2,823	3,665	34,823
Alpena.....	38	12	2,925	19,197	2,161	4,631	13,407	46,720	2,403	3,451	36,783
Antrim.....	32	10	966	4,465	787	1,610	3,211	8,920	(2)	711	4,762
Baraga.....	53	7	705	2,895	546	1,100	2,175	5,752	(2)	229	1,243
Barry.....	45	14	3,009	17,580	2,257	4,659	12,155	36,334	2,225	2,399	20,969
Bay.....	177	54	9,919	62,980	7,798	16,110	47,205	137,412	6,065	9,315	89,694
Benzie.....	17	7	483	1,852	411	828	1,457	3,194	(2)	429	1,806
Berrien.....	325	125	23,515	148,853	16,989	34,729	91,007	265,098	11,328	20,626	181,980
Branch.....	79	27	3,310	18,528	2,635	5,411	13,304	33,907	1,720	2,841	23,282
Calhoun.....	197	79	19,337	128,459	14,754	29,801	90,471	343,036	17,300	20,947	267,345
Cass.....	76	24	2,661	13,904	2,173	4,528	10,355	21,439	2,608	2,174	14,493
Charlevoix.....	34	14	1,508	6,906	1,313	2,786	5,212	13,750	1,017	912	6,933
Cheboygan.....	30	7	463	1,941	395	786	1,470	3,695	(2)	325	1,566
Chippewa.....	43	4	598	2,922	423	840	1,962	6,004	(2)	768	6,331
Clare.....	19	5	672	3,720	511	1,042	2,724	6,702	(2)	408	3,489
Clinton.....	35	6	1,079	6,821	753	1,636	4,707	17,825	623	811	14,203
Crawford.....	10	3	268	1,132	196	412	735	2,437	(2)	294	1,779
Delta.....	97	12	2,353	12,138	1,983	3,993	9,916	23,168	1,127	2,174	12,849
Dickinson.....	78	11	1,044	4,546	739	1,470	2,868	7,738	1,185	1,951	14,444
Eaton.....	82	25	2,583	14,365	1,799	3,788	8,526	17,745	1,218	1,978	12,098
Emmet.....	28	10	938	4,667	800	1,671	3,579	12,106	1,365	656	8,395
Genesee.....	283	79	66,931	553,462	54,888	127,942	438,414	1,124,581	80,463	57,651	578,648
Gogebic.....	64	8	718	2,955	595	1,200	2,313	4,064	(2)	795	4,631
Grand Traverse.....	54	23	2,490	12,351	1,885	3,611	8,128	21,779	934	2,082	13,815
Cratich.....	39	15	3,778	21,656	2,994	6,307	15,003	39,171	3,429	2,967	31,481
Hillsdale.....	69	19	2,440	12,761	2,003	4,206	9,852	26,013	1,278	1,921	15,814
Houghton.....	72	14	1,086	4,570	777	1,559	2,970	9,134	604	1,276	9,218
Huron.....	60	19	1,362	6,981	1,113	2,320	5,240	14,688	1,522	1,428	13,699
Ingham.....	231	76	25,192	201,963	19,194	44,007	149,045	438,207	25,459	23,006	257,399
Ionia.....	74	27	3,894	21,413	3,166	7,058	16,110	46,722	1,738	3,799	29,128
Iosco.....	34	6	497	2,258	438	883	1,814	5,543	(2)	482	5,432
Iron.....	48	2	262	852	229	429	728	1,593	(2)	229	937
Isabella.....	30	7	547	3,087	405	866	2,094	5,897	(2)	716	6,232
Jackson.....	281	104	16,402	107,058	12,430	25,473	73,644	195,449	9,032	14,904	150,359
Kalamazoo.....	297	126	25,918	171,606	17,643	37,093	103,304	368,437	15,568	25,063	278,059
Kent.....	872	298	50,409	317,216	39,342	80,982	226,082	621,076	31,281	44,468	409,733
Lapeer.....	51	18	1,957	10,040	1,661	3,455	7,509	21,007	1,002	1,151	7,272
Leavenworth.....	169	54	10,347	63,008	8,231	16,676	46,272	115,070	5,392	10,066	105,040
Livingston.....	101	29	2,201	12,213	1,781	3,716	8,690	21,760	862	1,713	13,171
Macomb.....	1,075	341	68,947	554,314	40,374	87,903	278,373	689,259	45,873	61,847	486,421
Manistee.....	56	17	2,552	13,173	1,992	4,034	9,065	35,933	1,694	1,871	20,079
Marquette.....	101	13	1,787	6,747	1,436	2,833	4,772	12,498	587	2,219	12,644
Mason.....	53	24	2,359	11,562	1,908	3,707	8,114	27,796	1,545	1,899	16,772
Mecosta.....	32	14	1,279	5,684	1,094	2,050	4,349	13,464	(2)	1,003	6,082
Menominee.....	110	21	2,361	10,283	1,912	3,779	7,700	20,570	1,260	2,573	20,084
Midland.....	36	13	13,849	112,258	8,014	17,156	63,205	190,646	14,921	12,884	139,423
Monroe.....	127	39	6,669	46,140	5,388	11,891	35,534	98,107	7,991	6,150	58,148
Montcalm.....	57	22	3,972	23,619	3,130	6,555	17,189	54,600	3,452	41,328	3,452
Muskegon.....	227	93	25,361	165,096	19,326	39,711	119,556	302,756	25,378	23,504	210,589
Oakland.....	1,350	388	67,052	512,167	49,278	110,167	349,704	987,977	69,001	50,036	538,847
Oceana.....	26	7	434	1,285	381	699	994	2,592	(2)	487	1,743
Ogemaw.....	26	5	342	1,171	300	561	927	1,513	(2)	289	1,933
Ontonagon.....	23	4	534	2,986	425	940	2,404	8,480	725	434	3,567
Osceola.....	30	9	1,421	6,525	1,212	2,530	5,013	11,426	758	947	6,459
Otsego.....	17	2	439	2,541	362	795	2,034	5,943	537	371	3,548

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Ottawa.....	285	114	14,299	76,455	11,146	22,888	54,542	160,260	5,869	12,012	138,517
Saginaw.....	243	88	25,278	187,513	20,142	44,322	141,666	401,637	39,735	21,201	221,307
Saint Clair.....	188	59	9,954	63,403	7,289	15,204	42,684	107,059	5,157	7,752	67,829
Saint Joseph.....	141	70	8,568	43,918	6,780	14,109	30,327	97,247	4,381	7,375	69,407
Sanilac.....	65	27	3,169	15,324	2,720	5,797	11,825	30,820	1,044	2,227	16,506
Schoolcraft.....	33	3	358	1,599	307	618	1,352	2,983	(Z)	341	1,865
Shiawassee.....	92	31	5,439	30,587	4,205	8,603	21,157	50,729	2,023	4,158	31,578
Tuscola.....	69	20	2,104	9,643	1,695	3,568	7,571	21,172	1,407	1,484	8,174
Van Buren.....	104	36	4,960	23,877	4,136	8,345	18,622	49,360	2,170	3,714	30,011
Washtenaw.....	240	77	25,697	187,772	20,710	44,627	142,471	485,088	19,191	18,074	184,325
Wayne.....	4,411	1,398	357,584	2,772,706	240,549	509,057	1,662,616	4,925,232	233,549	355,944	3,287,161
Wexford.....	47	17	1,741	8,056	1,427	2,645	6,125	15,251	(Z)	1,497	9,442

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Ann Arbor Standard Metropolitan Statistical Area is coextensive with Washtenaw County, Mich.⁵The Bay City Standard Metropolitan Statistical Area is coextensive with Bay County, Mich.⁶The Detroit Standard Metropolitan Statistical Area consists of Macomb, Oakland, and Wayne Counties, Mich.⁷The Flint Standard Metropolitan Statistical Area consists of Genesee and Lapeer Counties, Mich.⁸The Grand Rapids Standard Metropolitan Statistical Area consists of Kent and Ottawa Counties, Mich.⁹The Jackson Standard Metropolitan Statistical Area is coextensive with Jackson County, Mich.¹⁰The Kalamazoo Standard Metropolitan Statistical Area is coextensive with Kalamazoo County, Mich.¹¹The Lansing Standard Metropolitan Statistical Area consists of Clinton, Eaton, and Ingham Counties, Mich.¹²The Muskegon-Muskegon Heights Standard Metropolitan Statistical Area is coextensive with Muskegon County, Mich.¹³The Saginaw Standard Metropolitan Statistical Area is coextensive with Saginaw County, Mich.¹⁴The Toledo Standard Metropolitan Statistical Area consists of Lucas and Wood Counties, Ohio, and Monroe County, Mich.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	13,965	4,400	961,459	6,941,128	692,212	1,477,677	4,522,115	13,003,804	721,073	880,428	8,363,614
20	Food and kindred products.....	1,349	489	52,328	291,048	35,018	71,224	176,213	737,042	39,174	57,665	657,595
201	Meat products.....	249	85	6,146	34,645	4,703	9,776	24,367	73,784	3,366	6,835	72,264
202	Dairies.....	349	129	9,662	53,372	4,646	9,892	24,514	133,571	8,490	12,600	142,770
203	Canned and frozen foods.....	161	76	7,382	27,198	6,349	12,282	20,420	91,092	5,130	7,132	59,525
204	Grain mill products.....	77	17	7,208	48,200	5,849	11,773	37,506	184,787	8,996	7,627	156,889
207	Candy and related products....	27	5	616	2,610	480	921	1,994	5,275	(Z)	562	3,164
208	Beverages.....	135	56	6,373	42,448	3,594	7,089	20,677	99,597	7,206	6,561	80,975
209	Miscellaneous foods and kindred products.....	121	38	3,186	17,698	1,915	3,851	8,596	36,973	2,371	3,173	32,039
22	Textile mill products.....	37	18	2,874	16,475	2,401	4,991	11,790	35,158	1,344	2,132	16,076
229	Miscellaneous textile goods...	22	13	2,020	12,934	1,635	3,387	9,132	30,126	1,091	1,510	11,853
23	Apparel and related products....	239	82	15,850	85,095	13,624	27,324	67,386	161,825	7,280	11,010	57,110
232	Men's and boys' furnishings....	24	9	610	1,894	523	938	1,579	3,191	(Z)	1,128	4,629
233	Women's and misses' outerwear...	22	10	1,045	3,434	916	1,582	2,457	5,338	(Z)	532	2,566
234	Women's and children's underwear.....	14	9	1,571	4,129	1,417	2,618	3,338	9,305	(Z)	1,350	5,887
236	Children's outerwear.....	10	8	826	2,630	713	1,493	2,077	5,150	(Z)	926	4,301
238	Miscellaneous apparel.....	14	6	399	1,816	298	559	1,100	3,563	532	407	2,616
239	Fabricated textiles, n.e.c....	141	37	11,254	70,690	9,628	19,904	56,423	133,946	6,317	6,510	35,650
24	Lumber and wood products.....	1,265	147	12,669	51,001	10,790	20,784	39,306	91,519	8,401	11,447	62,318
241	Logging camps and contractors...	528	7	1,864	4,290	1,678	3,168	3,878	7,737	1,501	1,673	6,212
242	Sawmills and planing mills....	316	51	3,536	13,395	3,099	6,083	11,044	20,817	1,982	3,617	18,328
243	Millwork and related products...	183	36	3,118	15,828	2,466	4,750	11,092	28,898	1,668	2,678	18,763
244	Wooden containers.....	44	9	509	1,847	438	834	1,409	3,551	(Z)	785	3,703
249	Miscellaneous wood products...	194	44	3,642	15,641	3,109	5,949	11,883	30,516	3,124	2,694	15,332
25	Furniture and fixtures.....	403	146	18,668	102,087	14,790	30,218	72,030	193,187	4,133	18,032	159,267
251	Household furniture.....	229	91	8,330	38,594	7,099	14,601	29,983	68,003	1,360	8,914	61,764
252	Office furniture.....	16	9	2,661	17,050	2,262	4,697	13,574	40,751	643	2,630	32,585
253	Public building furniture.....	26	11	2,934	17,761	2,012	3,968	10,831	31,971	711	2,607	26,834
254	Partitions and fixtures.....	96	24	2,584	15,618	1,852	3,942	9,625	25,811	708	2,259	19,318
259	Furniture and fixtures, n.e.c....	36	11	2,159	13,064	1,565	3,010	8,017	26,651	711	1,622	18,766

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
26	Paper and allied products.....	215	138	28,106	179,457	22,094	48,170	132,469	344,376	27,811	26,786	259,934
262	Paper mills, except building..	24	22	5,607	41,326	4,605	10,633	32,171	82,087	6,221	5,404	57,890
264	Paper and paperboard products.	86	40	8,058	48,917	6,327	13,247	35,549	102,377	12,337	7,922	73,179
265	Paperboard containers and boxes.....	86	58	10,256	60,176	7,773	16,309	41,939	98,763	5,083	8,911	72,703
27	Printing and publishing.....	1,440	255	27,908	176,749	17,547	34,381	107,186	318,276	16,006	27,779	257,218
271	Newspapers.....	324	77	11,427	73,135	5,683	10,767	37,077	140,966	6,546	12,069	115,945
272	Periodicals.....	73	8	579	3,934	176	282	1,000	9,885	(Z)	597	7,229
273	Books.....	48	15	1,106	5,233	655	1,269	3,415	11,216	(Z)	753	6,379
275	Commercial printing.....	781	100	9,939	64,005	7,591	15,350	44,860	111,327	6,527	9,829	90,576
276	Manifold business forms.....	14	8	784	4,428	577	1,152	2,959	7,078	983	600	4,599
278	Bookbinding and related work..	36	17	1,412	6,961	1,183	2,282	5,259	11,217	544	1,202	7,681
279	Printing trades services.....	109	24	1,885	15,988	1,450	2,877	11,775	21,548	674	2,058	19,814
28	Chemicals and allied products..	440	139	33,713	249,503	23,485	48,528	160,210	764,125	47,949	35,304	593,904
281	Basic chemicals.....	68	28	13,199	102,101	9,206	19,232	68,342	255,119	26,782	14,082	185,611
283	Drugs.....	47	19	6,969	48,753	4,979	9,552	31,323	234,839	4,403	8,474	200,296
284	Cleaning and toilet goods.....	102	17	1,663	10,745	1,005	2,063	4,887	36,051	1,502	1,149	19,967
285	Paints and allied products....	77	29	3,860	29,114	2,262	4,642	13,799	81,675	2,620	3,808	58,269
287	Agricultural chemicals.....	29	11	687	3,729	444	960	2,299	9,803	677	593	7,243
289	Miscellaneous chemical products.....	90	26	2,436	15,599	1,588	3,482	8,511	57,749	1,671	2,508	37,591
29	Petroleum and coal products....	73	24	2,929	22,027	2,046	4,539	14,418	84,822	2,843	2,807	50,709
291	Petroleum refining.....	15	20	2,086	16,422	1,458	3,328	10,922	65,294	2,156	1,982	39,823
295	Paving and roofing materials..	30	9	538	3,412	422	846	2,448	8,145	548	477	6,317
299	Petroleum and coal products, n.e.c.....	28	5	305	2,193	166	365	1,048	11,383	(Z)	348	4,569
30	Rubber and plastics products, n.e.c.....	290	117	19,005	113,711	14,970	29,983	80,940	230,048	13,882	14,113	146,565
307	Plastics products, n.e.c.....	222	87	8,225	41,145	6,572	13,540	28,602	81,716	6,239	4,302	35,588
32	Stone, clay and glass products..	739	155	18,150	113,960	13,942	28,640	78,459	309,453	15,222	17,425	207,976
323	Products of purchased glass....	32	9	1,766	11,005	1,331	2,759	7,199	38,233	577	1,024	11,096
324	Cement, hydraulic.....	11	7	2,037	15,200	1,625	3,521	11,380	55,667	2,231	2,620	49,056
325	Structural clay products.....	13	5	473	2,810	392	875	2,116	4,285	(Z)	562	4,429
327	Concrete and plaster products..	536	86	6,544	40,275	4,546	9,539	24,676	99,768	8,514	6,457	71,435
329	Nonmetallic mineral products..	105	37	3,329	19,708	2,343	4,975	12,807	43,980	1,904	3,053	31,261
33	Primary metal industries.....	555	319	81,625	602,734	68,174	142,987	471,119	1,143,823	98,524	67,977	683,092
331	Steel rolling and finishing....	42	32	26,052	215,566	21,480	43,565	166,274	509,882	62,559	21,001	275,712
332	Iron and steel foundries.....	118	95	30,233	217,598	26,039	56,368	178,266	346,322	22,970	24,323	188,426
334	Secondary nonferrous metals..	25	8	410	2,528	317	667	1,573	7,534	(Z)	407	2,466
336	Nonferrous foundries.....	166	69	7,120	44,732	6,017	12,088	33,924	71,102	3,051	7,529	69,051
339	Primary metal industries, n.e.c.....	145	70	7,970	59,003	6,575	13,995	44,852	95,837	3,936	6,250	57,916
34	Fabricated metal products.....	2,074	793	87,087	550,331	70,145	148,300	400,317	1,024,532	46,202	79,052	677,117
342	Cutlery, hand tools, hardware.	159	68	18,487	130,472	15,570	34,127	103,051	275,793	15,329	18,717	164,686
343	Plumbing and heating, except electric.....	54	20	3,574	19,157	2,289	4,483	12,117	31,819	1,033	3,527	28,938
344	Structural metal products.....	497	157	14,064	86,852	10,645	21,957	57,965	160,662	6,936	15,602	141,751
345	Screw machine products.....	348	124	9,879	66,620	8,118	18,535	48,946	124,032	5,942	7,978	72,104
346	Metal stampings.....	344	180	16,240	100,770	13,390	27,872	72,031	181,544	6,863	13,672	127,333
348	Fabricated wire products, n.e.c.....	87	41	6,847	42,819	5,573	11,711	31,435	69,876	3,026	6,777	46,681
349	Fabricated metal products, n.e.c.....	159	74	10,083	64,133	7,844	15,998	44,621	110,694	3,882	8,048	62,315
35	Machinery, except electrical....	3,242	940	132,934	971,906	101,931	215,720	695,839	1,758,378	63,855	124,422	1,192,827
351	Engines and turbines.....	23	16	12,748	91,025	9,450	19,534	63,963	184,205	5,242	11,309	110,199
352	Farm machinery and equipment..	64	25	5,209	34,776	3,933	8,530	24,381	103,971	1,772	4,786	78,642
353	Construction and like equipment.....	134	63	12,024	83,203	8,357	16,327	52,382	160,745	4,355	11,683	114,369
354	Metalworking machinery.....	1,613	505	48,954	395,773	38,732	87,160	297,555	642,225	26,264	42,599	425,458
355	Special industry machinery....	132	59	6,801	48,997	4,620	9,748	27,484	99,831	3,312	6,311	72,072
356	General industrial machinery..	381	108	15,738	113,981	12,230	25,482	83,052	206,678	9,223	16,157	139,657
358	Service industry machines....	84	31	8,497	56,176	6,301	12,397	36,746	108,894	3,216	9,461	93,804
36	Electrical machinery.....	359	156	32,378	193,194	25,473	51,983	134,874	372,094	13,415	27,179	253,817
361	Electric distribution products	46	21	2,614	17,104	1,890	3,770	10,281	30,788	959	3,581	32,977
362	Electric industrial apparatus..	94	51	7,255	44,895	5,455	11,213	28,390	66,579	1,944	5,001	41,113
363	Household appliances.....	40	16	7,504	46,489	6,078	12,424	34,988	107,855	5,348	8,368	75,606
364	Lighting and wiring devices....	45	16	1,783	9,337	1,427	2,859	6,672	17,746	(Z)	1,088	11,957
367	Electronic components.....	47	16	2,976	13,370	2,465	4,827	8,802	28,149	802	2,281	22,891
369	Electrical products, n.e.c.....	48	21	7,169	42,930	6,156	12,733	34,662	92,881	3,136	3,587	38,712
37	Transportation equipment.....	596	306	283,770	2,246,819	231,823	522,048	1,749,605	5,068,299	301,537	252,370	2,749,241
371	Motor vehicles and equipment..	362	213	264,494	2,114,828	218,229	494,866	1,669,080	4,861,894	294,623	231,259	2,595,206
372	Aircraft and parts.....	89	48	10,323	80,073	6,244	12,720	41,712	103,054	4,101	12,403	90,358
373	Ship and boat building.....	59	15	2,648	13,709	2,308	4,468	11,287	19,276	(Z)	3,714	23,607

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
38	Instruments and related products	151	42	13,591	92,527	10,385	20,709	65,206	151,032	8,211	8,746	83,176
381	Scientific instruments.....	22	11	4,731	32,957	3,535	6,702	23,284	52,517	3,622	4,230	44,324
382	Mechanical measuring devices..	43	13	6,592	47,413	5,103	10,667	34,400	77,938	3,767	1,850	14,702
39	Miscellaneous manufacturing, including ordnance ²	458	114	13,527	76,396	10,104	21,308	50,038	173,785	4,334	21,704	228,992
391	Jewelry and silverware.....	22	6	529	3,690	338	679	2,248	7,824	(Z)	305	2,862
393	Musical instruments and parts.	15	7	1,472	7,961	1,324	2,663	6,909	14,171	(Z)	971	6,710
394	Toys and sporting goods.....	129	41	5,422	26,885	4,148	8,334	17,495	84,197	2,118	5,117	53,556
395	Pens, pencils and office supplies.....	30	6	458	3,228	298	636	2,018	5,304	(Z)	416	3,575
398	Miscellaneous manufactures ³ ...	253	53	5,599	34,498	3,955	7,920	21,148	62,099	1,540	14,651	158,689
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	80,464	788,267	-	-	-	-	-	70,838	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^T Revised.¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) to avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishments at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DETROIT SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	6,836	2,127	493,583	3,839,187	330,201	707,127	2,290,693	6,602,468	348,423	467,825	4,312,429
20	Food and kindred products.....	474	184	21,466	132,531	13,079	26,609	72,700	260,618	13,795	23,802	256,543
201	Meat products.....	113	50	3,108	18,804	2,352	4,994	13,182	40,281	1,494	3,666	44,089
202	Dairies.....	78	36	3,293	20,664	1,476	3,164	9,137	50,276	4,555	4,662	57,902
203	Canned and frozen foods.....	37	8	575	2,658	478	857	1,510	4,291	(Z)	456	2,960
205	Bakery products.....	96	35	6,616	39,109	4,036	8,247	22,624	61,359	1,463	6,944	57,821
208	Beverages.....	52	25	4,702	33,258	2,732	5,237	16,480	69,133	3,986	4,883	62,933
209	Miscellaneous foods and kindred products.....	68	26	2,464	14,525	1,447	2,982	7,052	27,968	1,888	2,411	26,179
22	Textile mill products.....	15	6	1,112	7,621	863	1,898	5,378	17,546	881	782	5,673
23	Apparel and related products...	135	39	8,334	53,306	7,147	14,716	42,794	87,140	2,229	6,005	29,477
232	Men's and boys' furnishings...	19	6	325	1,175	265	476	938	1,749	(Z)	641	2,519
233	Women's and misses' outerwear.	15	6	374	1,341	317	567	1,007	2,332	(Z)	361	1,938
239	Fabricated textiles, n.e.c....	76	20	7,379	50,283	6,331	13,324	40,371	82,102	2,070	4,572	22,275
24	Lumber and wood products.....	131	28	2,289	11,631	1,857	3,470	8,300	22,848	1,020	1,939	15,832
243	Millwork and related products.	74	15	1,047	5,893	828	1,504	4,105	12,405	854	7,303	15,441
249	Miscellaneous wood products...	36	8	1,000	4,766	825	1,582	3,436	8,418	(Z)	884	6,722
25	Furniture and fixtures.....	156	34	2,601	13,501	2,043	4,117	9,603	26,307	571	2,750	24,550
251	Household furniture.....	74	21	1,567	7,292	1,275	2,524	5,330	15,189	(Z)	1,733	15,441
254	Partitions and fixtures.....	51	9	701	4,428	496	1,060	2,868	8,342	(Z)	771	6,856
26	Paper and allied products.....	82	36	4,550	28,864	3,455	7,447	19,389	54,584	2,379	4,035	38,562
264	Paper and paperboard products.	45	17	2,049	12,559	1,587	3,314	8,088	28,578	1,135	2,020	19,902
27	Printing and publishing.....	659	114	15,222	107,630	9,326	18,304	63,391	186,721	9,731	15,990	154,487
271	Newspapers.....	79	21	5,893	43,062	2,685	4,990	20,095	77,720	4,545	6,668	67,046
272	Periodicals.....	44	5	393	3,039	109	179	663	7,526	(Z)	346	5,220
274	Miscellaneous publishing.....	20	5	489	1,516	74	142	263	3,100	(Z)	334	2,901
275	Commercial printing.....	401	48	5,465	38,567	4,091	8,091	26,905	67,259	3,925	5,823	55,516
278	Bookbinding and related work..	24	10	987	5,087	818	1,371	3,756	8,241	(Z)	923	5,826
279	Printing trades services.....	67	20	1,449	12,859	1,125	2,238	9,557	17,636	535	1,566	15,504

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DETROIT SMSA—Continued												
28	Chemicals and allied products...	262	74	15,538	112,801	9,646	19,455	62,143	324,333	14,978	16,517	240,835
281	Basic chemicals.....	37	13	5,782	43,846	3,792	7,657	27,088	95,143	11,048	6,633	90,881
282	Fibers, plastics, rubbers.....	17	3	451	3,307	262	555	1,799	14,965	(Z)	484	6,828
283	Drugs.....	29	10	4,456	31,317	2,867	5,546	17,721	117,846	1,000	4,781	79,029
285	Paints and allied products....	52	21	2,795	20,756	1,585	3,268	9,450	53,677	1,389	2,720	35,865
289	Miscellaneous chemical products.....	54	14	1,134	7,737	621	1,328	3,404	27,795	721	909	15,490
29	Petroleum and coal products....	44	12	1,330	10,148	940	2,027	6,970	53,257	1,146	1,390	29,098
295	Paving and roofing materials..	17	6	311	1,977	230	461	1,333	4,725	(Z)	391	4,972
30	Rubber and plastics products, n.e.c.....	153	51	10,097	62,383	7,717	14,745	42,708	114,636	6,836	8,259	77,276
307	Plastics products, n.e.c.....	116	37	3,642	17,565	2,928	5,932	12,059	30,964	2,263	1,937	16,082
32	Stone, clay and glass products..	262	82	9,385	61,586	7,187	14,624	41,886	154,282	7,190	8,161	87,447
323	Products of purchased glass....	22	7	1,534	9,629	1,159	2,352	6,340	35,063	(Z)	843	10,084
327	Concrete and plaster products..	147	44	3,012	21,020	2,027	4,403	12,633	51,791	4,623	2,786	30,123
329	Nonmetallic mineral products..	60	19	1,645	10,453	1,261	2,450	6,567	20,988	866	1,311	12,979
33	Primary metal industries.....	279	149	44,412	350,832	36,992	76,391	272,676	745,798	69,190	37,980	432,780
331	Steel rolling and finishing....	32	25	24,925	207,152	20,656	41,778	160,837	434,555	61,194	20,239	265,002
332	Iron and steel foundries.....	29	22	7,923	61,358	7,026	14,803	50,950	108,929	2,665	7,302	66,373
335	Nonferrous rolling and drawing.....	22	14	3,272	23,650	2,498	5,448	16,830	45,554	1,870	3,264	38,369
336	Nonferrous foundries.....	74	27	2,331	14,717	1,973	3,840	11,276	20,753	766	2,458	20,668
339	Primary metal industries, n.e.c.....	105	55	5,571	41,248	4,388	9,624	30,809	68,708	2,666	4,422	40,987
34	Fabricated metal products.....	1,228	442	43,429	284,807	34,853	73,579	203,872	526,002	22,325	41,546	367,528
342	Cutlery, hand tools, hardware..	84	25	5,963	43,063	5,015	10,794	33,914	49,785	4,952	6,460	49,835
344	Structural metal products.....	293	91	8,152	51,442	6,208	12,677	34,929	89,911	3,888	9,498	88,218
345	Screw machine products.....	222	81	6,978	50,420	5,649	12,799	36,484	93,428	4,245	5,512	52,928
346	Metal stampings.....	211	105	9,670	63,054	7,866	16,473	44,149	114,494	4,407	9,215	93,910
347	Metal services, n.e.c.....	236	69	4,057	20,740	3,399	6,802	15,113	36,174	1,723	2,374	17,669
348	Fabricated wire products, n.e.c.....	48	17	1,934	12,284	1,535	3,234	8,245	21,259	827	2,693	17,603
349	Fabricated metal products, n.e.c.....	100	45	4,936	32,667	3,917	8,145	23,564	57,874	1,462	4,767	37,774
35	Machinery, except electrical....	2,127	589	74,776	586,673	58,411	125,936	429,520	1,044,582	35,043	72,216	731,322
351	Engines and turbines.....	12	7	4,416	31,820	2,910	5,852	18,758	80,192	(D)	5,461	68,260
353	Construction and like equipment.....	70	32	4,902	37,371	3,416	6,510	22,323	68,111	1,592	4,361	41,756
354	Metalworking machinery.....	1,184	380	39,114	325,923	30,099	68,617	246,024	519,913	20,397	32,236	336,778
355	Special industry machinery....	46	15	1,805	15,190	1,142	2,439	7,142	43,141	633	2,044	36,609
356	General industrial machinery..	236	61	8,971	68,211	7,296	15,526	52,831	122,500	4,541	10,429	83,539
358	Service industry machines....	36	7	657	4,332	497	962	2,778	7,124	(Z)	2,491	17,002
359	Miscellaneous machinery.....	518	73	5,606	38,129	4,624	9,732	29,554	67,672	3,665	4,203	38,010
36	Electrical machinery.....	200	67	6,391	44,204	4,610	9,647	27,335	70,768	2,323	6,614	66,685
361	Electric distribution products	28	11	1,290	9,522	878	1,721	5,529	13,823	(Z)	2,710	27,632
362	Electric industrial apparatus..	54	25	2,094	16,094	1,351	2,899	8,875	25,852	525	1,463	14,709
363	Household appliances.....	20	5	291	2,045	211	438	1,137	3,982	(Z)	513	4,446
364	Lighting and wiring devices...	30	9	1,171	6,323	952	1,888	4,699	11,826	(Z)	705	8,397
366	Communication equipment.....	13	5	500	4,993	369	726	3,379	6,478	(Z)	378	3,853
367	Electronic components.....	23	6	452	2,253	352	730	1,558	4,617	(Z)	518	4,400
369	Electrical products, n.e.c.....	26	6	573	2,882	479	1,007	2,005	5,050	(Z)	308	3,069
37	Transportation equipment.....	319	147	153,405	1,212,765	125,845	280,966	945,050	2,786,745	153,582	141,542	1,585,687
371	Motor vehicles and equipment..	211	108	143,637	1,137,915	119,432	268,343	901,986	2,684,356	150,306	130,377	1,504,768
372	Aircraft and parts.....	59	30	6,721	54,911	4,052	8,154	28,862	72,844	2,479	8,472	59,987
38	Instruments and related products	69	13	2,144	14,489	1,370	2,748	8,677	26,334	943	1,025	9,070
382	Mechanical measuring devices..	22	4	1,371	9,535	814	1,606	5,680	15,701	(Z)	473	3,727
384	Medical instruments and supplies.....	21	2	422	2,727	299	622	1,545	5,592	(Z)	258	2,483
39	Miscellaneous manufacturing, including ordnance ³	219	53	5,022	30,350	3,777	7,612	19,445	60,929	1,666	13,323	148,862
394	Toys and sporting goods.....	35	8	1,300	4,751	951	1,946	3,623	11,191	620	523	4,080
398	Miscellaneous manufactures ³ ...	142	36	3,288	21,755	2,441	4,896	13,726	42,614	919	12,231	140,298
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	69,949	694,623	-	-	-	-	-	62,790	-
FLINT SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	334	97	68,888	563,502	56,549	131,397	445,923	1,145,588	81,465	58,802	585,920
20	Food and kindred products.....	44	17	1,145	(D)	623	(D)	(D)	(D)	(D)	1,474	(D)
26	Paper and allied products.....	3	2	250	(D)	197	(D)	(D)	(D)	(D)	189	(D)
27	Printing and publishing.....	42	7	826	(D)	539	(D)	(D)	(D)	(D)	788	(D)
28	Chemicals and allied products...	15	5	575	(D)	408	(D)	(D)	(D)	(D)	542	(D)
32	Stone, clay and glass products..	27	6	334	(D)	202	(D)	(D)	(D)	(D)	281	(D)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
FLINT SMSA—Continued												
33	Primary metal industries.....	9	7	606	(D)	520	(D)	(D)	(D)	(D)	480	(D)
34	Fabricated metal products.....	56	20	7,031	(D)	5,978	(D)	(D)	(D)	(D)	5,852	(D)
35	Machinery, except electrical....	54	10	575	(D)	470	(D)	(D)	(D)	(D)	527	(D)
37	Transportation equipment.....	25	13	56,652	(D)	46,899	(D)	(D)	(D)	(D)	47,959	(D)
GRAND RAPIDS SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	1,157	412	64,708	393,671	50,488	103,870	280,624	781,336	37,150	56,480	548,250
20	Food and kindred products.....	131	39	4,320	21,580	2,829	5,610	11,636	49,992	2,346	4,967	44,133
201	Meat products.....	20	7	537	2,605	400	753	1,450	6,245	(Z)	664	4,486
202	Dairies.....	40	8	744	3,881	308	606	1,495	10,112	(Z)	968	9,898
205	Bakery products.....	30	16	2,152	10,969	1,450	2,852	5,944	18,965	857	2,389	21,132
22	Textile mill products.....	8	4	812	4,601	691	1,344	3,146	12,013	(Z)	587	5,532
24	Lumber and wood products.....	78	17	1,284	6,410	1,069	2,149	4,633	10,065	532	1,286	7,915
242	Sawmills and planing mills....	26	3	267	1,101	242	488	892	1,728	(Z)	372	2,520
243	Millwork and related products..	17	4	434	2,352	336	662	1,546	3,389	(Z)	421	2,719
25	Furniture and fixtures.....	115	63	8,350	48,620	6,776	14,383	35,469	88,887	1,304	8,146	72,390
251	Household furniture.....	77	41	3,900	18,952	3,352	7,042	14,973	31,249	(Z)	4,414	29,952
254	Partitions and fixtures.....	21	8	780	4,545	617	1,402	3,036	5,952	(Z)	628	4,494
26	Paper and allied products.....	18	9	1,394	7,146	1,012	1,905	4,826	11,381	1,052	1,221	10,473
27	Printing and publishing.....	144	34	2,852	15,956	1,867	3,742	9,917	30,178	1,297	2,757	22,638
273	Books.....	14	7	431	1,471	152	305	693	4,386	(Z)	349	2,371
275	Commercial printing.....	82	18	1,323	8,176	1,009	2,127	5,118	13,181	807	1,252	10,650
28	Chemicals and allied products...	41	13	1,782	11,377	1,132	2,352	5,665	32,562	1,805	1,124	42,702
285	Paints and allied products....	10	3	438	3,402	227	469	1,346	5,792	(Z)	400	3,895
30	Rubber and plastics products, n.e.c.....	17	6	764	4,173	624	1,200	2,893	6,725	(Z)	578	4,232
32	Stone, clay and glass products..	59	11	961	5,562	705	1,497	3,766	15,398	874	948	10,563
327	Concrete and plaster products..	43	10	734	4,052	542	1,104	2,858	11,773	668	712	8,839
33	Primary metal industries.....	45	24	2,844	17,809	2,344	4,721	13,471	28,143	1,569	2,201	19,710
332	Iron and steel foundries.....	9	6	767	4,662	632	1,338	3,798	7,231	510	(D)	(D)
335	Nonferrous rolling and drawing	5	4	978	5,860	773	1,505	4,389	9,342	(Z)	(D)	(D)
336	Nonferrous foundries.....	20	11	916	5,945	812	1,592	4,584	9,227	504	714	7,308
34	Fabricated metal products.....	188	75	11,973	70,160	9,733	20,609	53,042	124,466	5,305	9,912	86,527
342	Cutlery, hand tools, hardware...	20	12	4,129	26,651	3,562	8,120	21,273	49,106	2,008	(D)	(D)
344	Structural metal products.....	29	5	1,113	6,741	843	1,700	4,362	14,424	763	1,051	11,227
345	Screw machine products.....	20	7	514	3,163	434	1,020	2,508	5,988	567	484	3,371
346	Metal stampings.....	29	14	1,534	9,262	1,259	2,586	6,727	16,523	557	1,026	7,640
347	Metal services, n.e.c.....	69	24	1,898	9,450	1,661	3,371	7,561	14,403	546	1,054	4,733
35	Machinery, except electrical....	181	57	8,032	54,689	6,156	13,154	37,182	121,876	4,376	5,214	52,154
353	Construction and like equipment.....	14	5	633	4,705	366	743	2,098	12,124	(Z)	541	7,040
354	Metalworking machinery.....	76	20	2,094	14,871	1,618	3,512	10,550	28,102	915	1,964	18,290
355	Special industry machinery....	23	11	962	5,941	695	1,388	3,806	10,918	765	(D)	(D)
356	General industrial machinery....	22	6	581	4,326	421	871	2,688	7,345	(Z)	425	3,489
359	Miscellaneous machinery.....	29	5	354	1,726	301	615	1,392	2,847	(Z)	184	1,844
36	Electrical machinery.....	28	17	4,627	27,318	3,852	7,755	20,848	52,265	4,133	3,835	33,946
39	Miscellaneous manufacturing....	40	12	1,116	5,492	923	1,813	4,575	12,176	(Z)	789	6,852
394	Toys and sporting goods.....	9	6	530	2,130	420	796	1,791	4,890	(Z)	270	2,341
--	Administrative and auxiliary ⁴ ...	-	-	302	2,647	-	-	-	-	-	165	-
TOLEDO SMSA ("All manufacturing" totals for the Toledo SMSA (which includes Monroe County in Michigan) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Ohio.)												

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

¹Revised.
²Includes expenditures for both plants in operation and for plants under construction but not in operation.
³The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas, or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.
⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.
⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.



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U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
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1963 CENSUS OF MANUFACTURES

MC63(P)-S24



preliminary
report

Area series

MINNESOTA

Value added by manufacturing in 1963 in the State of Minnesota amounted to \$2,828 million an increase of 7 percent from 1962 and 38 percent from 1958. Of this total, \$585 million, was contributed by the food and kindred products industries and \$487 million by the nonelectrical machinery industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	5,438	1,542	r 248,835	r 1,494,446	166,483	333,950	868,148	2,827,660	159,489	113	138
1962 ³	(NA)	(NA)	r 238,779	r 1,389,115	161,975	319,272	812,093	2,643,655	139,413	108	129
1961 ³	(NA)	(NA)	r 230,307	r 1,297,557	155,613	309,218	753,217	2,475,952	139,797	104	121
1960 ³	(NA)	(NA)	r 229,697	r 1,246,773	157,035	310,154	730,055	2,375,198	116,871	104	116
1959 ³	(NA)	(NA)	r 225,423	r 1,169,623	154,176	306,235	695,085	2,338,955	104,875	102	114
1958.....	5,317	1,433	r 220,689	r 1,093,927	149,563	293,859	654,942	2,050,405	108,619	100	100

(NA) Not available. ^r Revised. (X) Not applicable.

¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

² Includes expenditures for both plants in operation and for plants under construction but not in operation.

³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MINNESOTA, TOTAL.....	5,438	1,542	248,835	1,494,446	166,483	333,950	868,148	2,827,660	159,489	†220,689	2,050,405
STANDARD METROPOLITAN STATISTICAL AREAS											
Duluth-Superior ⁴	359	82	11,501	60,352	8,807	16,454	42,186	129,163	3,634	11,375	101,811
Portion in Wisconsin.....	54	16	1,292	7,723	903	1,794	5,065	18,633	744	1,343	12,981
Portion in Minnesota.....	305	66	10,209	52,629	7,904	14,660	37,121	110,530	2,890	10,032	88,830
Fargo-Moorehead ⁵	99	27	2,314	11,897	1,629	3,296	7,654	29,685	1,402	2,702	21,909
Portion in Minnesota.....	31	9	723	3,615	510	1,175	2,256	11,252	721	736	5,039
Portion in North Dakota.....	68	18	1,591	8,282	1,119	2,121	5,398	18,433	681	1,966	16,870
Minneapolis-St. Paul ⁶	2,599	966	166,637	1,071,015	103,790	206,844	576,295	1,972,060	99,133	†146,037	1,396,579
COUNTIES ¹											
Aitkin.....	30	2	264	951	215	434	624	2,090	(Z)	271	1,379
Anoka.....	83	28	6,178	38,762	5,255	10,811	31,060	66,090	2,013	5,975	49,827
Becker.....	36	5	431	1,459	341	646	1,013	3,701	(Z)	424	2,221
Beltrami.....	45	4	324	1,152	249	514	826	2,432	(Z)	383	2,075
Benton.....	36	8	904	4,693	690	1,450	3,452	9,774	1,832	814	7,697
Big Stone.....	6	2	267	585	224	242	363	224	(Z)	365	1,114
Blue Earth.....	60	20	2,229	11,868	1,586	3,329	7,779	28,095	1,350	2,337	21,716
Brown.....	55	21	1,552	7,795	1,210	2,646	5,739	21,841	1,746	1,586	10,339
Carlton.....	33	5	3,864	21,944	3,143	6,381	16,487	41,189	3,045	3,908	37,405
Carver.....	38	8	818	3,780	678	1,475	2,843	7,460	946	646	5,459
Cass.....	36	3	371	1,261	327	674	1,035	2,081	(Z)	320	1,678
Chisago.....	29	3	295	1,215	240	464	870	7,105	(Z)	171	1,019
Clay.....	31	9	723	3,615	510	1,175	2,256	11,252	721	736	5,039
Cottonwood.....	19	4	345	1,571	296	659	1,312	7,753	(Z)	288	2,380
Crow Wing.....	43	10	1,244	6,252	926	1,856	4,216	10,368	(D)	986	5,853
Dakota.....	75	29	9,014	58,218	7,011	14,468	44,874	108,878	15,580	8,469	90,811
Douglas.....	30	2	269	1,167	204	452	855	3,166	(Z)	350	2,416
Faribault.....	41	8	907	3,253	799	1,644	2,673	7,487	(Z)	797	5,936
Freeborn.....	49	14	3,267	20,488	2,406	5,179	14,275	35,922	1,380	3,436	27,940
Goodhue.....	58	20	2,324	11,875	1,897	3,845	8,396	26,205	1,259	2,241	19,339
Hennepin.....	1,740	627	92,293	581,079	58,166	115,303	310,940	984,407	53,760	79,261	682,152
Hubbard.....	30	1	324	830	288	435	652	1,359	(Z)	170	770
Itasca.....	90	8	1,062	6,084	872	1,847	4,585	10,440	(D)	798	8,990
Kanabec.....	14	6	415	1,779	308	696	1,270	3,190	(Z)	331	2,538
Kandiyohi.....	18	7	987	3,670	807	1,697	2,676	6,429	(Z)	1,001	6,713
Lake.....	39	3	275	1,210	238	432	1,066	1,401	(Z)	399	1,784
Le Sueur.....	33	12	1,834	8,352	1,099	2,350	3,996	11,603	509	1,102	8,080
Lyon.....	28	8	699	2,439	604	1,223	1,702	6,203	(Z)	600	4,273
McLeod.....	44	14	2,281	11,698	1,846	3,954	8,768	50,373	1,538	1,547	34,254
Martin.....	31	5	1,257	5,913	957	1,916	4,077	16,139	1,159	1,366	14,014
Meeker.....	34	6	429	2,060	625	1,237	3,608	12,474	(Z)	434	3,635
Millie Laas.....	33	6	384	1,443	329	666	1,127	3,886	(Z)	320	3,361
Morrison.....	36	8	761	3,142	625	1,302	2,468	6,936	590	900	7,479
Nicollet.....	25	5	468	1,696	350	741	717	6,213	(Z)	350	2,593
Nobles.....	20	4	1,156	4,179	1,025	2,041	3,394	4,482	927	901	4,188
Olmsted.....	55	16	4,761	32,280	2,715	5,835	15,146	35,608	3,869	3,586	30,553
Otter Tail.....	71	18	1,088	4,349	772	1,474	2,787	10,351	618	945	7,564
Pennington.....	17	5	276	1,023	215	401	656	2,236	(Z)	341	1,753
Pipestone.....	21	2	315	1,483	213	451	769	2,404	(Z)	398	3,432
Polk.....	45	12	934	4,647	738	1,724	3,525	17,184	745	586	8,593
Ramsey.....	652	267	55,614	368,911	30,952	61,076	175,536	728,468	20,916	49,042	502,235
Renville.....	35	5	278	1,032	224	483	786	3,108	(Z)	250	1,420
Rice.....	45	19	1,889	9,665	1,368	2,649	5,515	21,420	1,272	1,663	12,666
Rock.....	15	3	290	1,682	213	533	1,093	2,195	(D)	277	1,530
Roseau.....	18	2	308	1,334	231	543	911	2,471	(Z)	307	1,741
St. Louis.....	305	66	10,209	52,629	7,904	14,660	37,121	110,530	2,890	10,032	88,830
Scott.....	51	14	1,890	10,332	1,469	3,003	7,409	25,263	1,856	1,017	15,043
Sibley.....	24	4	331	1,368	261	542	998	5,911	(Z)	234	1,766
Stearns.....	119	27	3,730	17,936	2,853	6,093	12,581	30,408	1,008	4,090	29,088
Steele.....	53	22	2,407	11,934	1,731	3,533	7,598	24,841	929	1,890	18,588
Todd.....	28	6	586	2,339	544	1,004	1,933	3,097	885	466	3,156
Wabasha.....	25	6	809	4,220	655	1,567	3,207	9,138	(Z)	726	6,647
Waseca.....	28	4	1,237	4,555	1,044	2,057	3,217	11,149	(Z)	1,229	10,405
Washington.....	49	15	3,538	24,045	2,406	5,186	13,885	84,217	6,864	3,290	71,554
Watonwan.....	23	5	1,239	4,281	1,096	2,111	3,462	6,335	(Z)	885	2,966
Winona.....	100	45	4,675	21,857	3,516	7,152	14,620	43,175	2,730	3,612	36,019
Wright.....	53	11	1,245	4,291	1,036	2,025	3,197	10,087	799	635	5,934

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. † Revised.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Duluth-Superior Standard Metropolitan Statistical Area consists of St. Louis County, Minn., and Douglas County, Wis.⁵The Fargo-Moorehead Standard Metropolitan Statistical Area consists of Cass County, N.D. and Clay County, Minn.⁶The Minneapolis-St. Paul Standard Metropolitan Statistical Area consists of Anoka, Dakota, Hennepin, Ramsey, and Washington Counties, Minn.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	5,438	1,542	248,835	1,494,446	166,483	333,950	868,148	2,827,660	159,489	220,689	2,050,405
20	Food and kindred products.....	1,102	349	48,398	272,713	35,311	70,717	186,210	585,189	30,355	51,761	518,442
201	Meat products.....	91	45	18,436	117,495	14,757	28,148	91,033	173,705	6,279	19,217	165,373
202	Dairies.....	526	103	9,087	46,179	5,760	12,607	26,875	117,028	9,316	11,325	100,995
203	Canned and frozen foods.....	60	32	5,249	18,453	4,580	8,869	13,958	53,314	2,926	4,161	37,013
204	Grain mill products.....	121	38	3,217	20,595	2,156	4,703	12,251	66,300	2,407	3,734	54,577
207	Candy and related products....	24	10	1,154	4,863	985	2,093	3,614	11,010	733	981	8,103
208	Beverages.....	98	44	4,328	27,658	2,641	5,079	16,589	74,647	5,391	4,944	73,415
209	Miscellaneous foods and kindred products.....	69	31	2,175	12,852	1,508	3,217	7,587	37,341	1,264	2,581	37,429
22	Textile mill products:											
225	Knitting mills.....	10	6	1,788	7,262	1,318	2,639	4,546	8,336	(Z)	1,927	5,034
229	Miscellaneous textile goods...	9	5	553	2,549	446	881	1,879	9,481	(Z)	534	7,684
23	Apparel and related products....	166	77	7,195	25,242	6,360	11,439	18,669	49,177	950	7,735	42,040
231	Men's and boys' suits and coats.....	16	9	1,099	4,572	965	1,787	3,052	6,632	(Z)	1,323	7,209
232	Men's and boys' furnishings....	27	22	2,426	8,064	2,195	3,765	6,105	19,332	(Z)	1,958	11,472
233	Women's and misses' outerwear..	28	17	1,311	4,695	1,171	2,053	3,685	8,040	(Z)	1,461	7,813
239	Fabricated textiles, n.e.c.....	67	19	1,460	4,882	1,274	2,502	3,638	8,170	(Z)	1,557	8,370
24	Lumber and wood products.....	686	70	6,979	29,597	5,768	11,613	22,094	56,004	3,791	7,185	54,336
241	Lagging camps and contractors..	349	12	1,739	4,330	1,533	2,840	3,802	6,412	1,272	1,714	7,368
242	Sawmills and planing mills....	161	11	933	2,485	808	1,427	2,190	4,705	716	998	4,202
243	Millwork and related products...	109	30	3,017	16,761	2,324	5,150	11,553	33,114	1,331	3,346	33,377
244	Wooden containers.....	18	5	258	1,061	231	458	902	1,770	(Z)	407	2,610
249	Miscellaneous wood products...	49	12	1,032	4,960	872	1,738	3,647	10,003	(Z)	720	6,779
25	Furniture and fixtures.....	131	32	2,714	13,953	2,202	4,519	10,072	22,612	745	2,524	16,688
251	Household furniture.....	76	17	1,586	7,702	1,307	2,743	5,319	12,078	(Z)	1,585	10,920
254	Partitions and fixtures.....	28	9	716	4,110	599	1,204	3,309	6,825	(Z)	594	3,403
26	Paper and allied products.....	88	52	13,623	81,499	10,790	22,715	59,830	178,005	22,851	11,541	148,118
264	Paper and paperboard products..	46	23	3,997	22,095	3,038	6,154	14,933	64,392	7,949	2,417	45,335
265	Paperboard containers and boxes.....	34	21	2,965	17,318	2,260	4,569	12,028	30,404	1,604	2,209	22,409
27	Printing and publishing.....	859	156	21,955	126,404	13,191	24,512	71,032	208,019	9,350	20,556	164,441
271	Newspapers.....	318	36	6,583	34,664	3,394	5,955	17,527	65,713	3,773	6,327	52,403
272	Periodicals.....	59	10	1,010	5,796	146	268	730	13,114	(Z)	739	7,381
273	Books.....	30	9	2,213	13,475	1,601	3,004	8,086	22,072	(Z)	2,036	16,759
275	Commercial printing.....	366	77	10,402	62,107	6,756	13,082	37,786	91,281	4,143	9,901	76,697
276	Manifold business forms.....	11	4	257	1,611	175	303	832	2,070	(Z)	141	1,004
278	Bookbinding and related work...	22	5	540	2,805	425	869	2,024	4,881	(Z)	389	2,827
279	Printing trades services.....	35	10	635	4,604	468	874	3,306	6,978	(Z)	640	5,343
28	Chemicals and allied products...	202	54	5,983	38,074	3,833	7,690	19,914	174,239	7,072	4,995	123,635
281	Basic chemicals.....	20	4	405	2,881	267	564	1,724	11,937	687	514	10,588
284	Cleaning and toilet goods.....	55	14	1,923	11,355	1,163	2,225	5,281	79,932	1,463	1,558	47,245
285	Paints and allied products....	24	11	744	5,041	464	953	2,613	12,769	(Z)	784	8,479
287	Agricultural chemicals.....	45	11	659	2,772	462	923	1,763	6,491	1,161	500	5,853
29	Petroleum and coal products....	25	13	1,474	10,780	954	2,104	6,200	41,899	16,031	1,289	27,145
295	Paving and roofing materials...	12	5	514	3,111	384	830	2,001	6,389	(Z)	452	5,043
30	Rubber and plastics products, n.e.c.....	119	33	3,934	19,627	3,139	6,302	13,553	39,870	2,739	2,106	15,071
307	Plastics products, n.e.c.....	91	24	2,831	13,577	2,225	4,456	9,121	27,115	1,894	1,122	7,584
32	Stone, clay and glass products..	368	72	11,079	71,010	7,178	14,650	39,325	160,118	7,368	8,298	104,583
328	Cut stone and stone products...	32	18	1,811	9,405	1,376	3,040	6,463	12,945	(Z)	1,780	12,868
33	Primary metal industries.....	84	42	5,471	35,168	4,766	9,367	28,460	64,455	1,864	5,559	47,311
336	Nonferrous foundries.....	31	16	1,219	7,244	1,084	2,308	5,967	10,025	(Z)	921	5,992
339	Primary metal industries, n.e.c.....	14	5	265	1,601	204	407	1,084	2,580	(Z)	134	1,567
34	Fabricated metal products.....	383	144	13,802	80,525	10,999	22,238	57,630	146,109	7,090	12,140	117,232
342	Cutlery, hand tools, hardware...	32	11	1,385	7,230	1,062	2,107	4,695	13,892	(Z)	1,581	12,158
343	Plumbing and heating, except electric.....	16	7	463	2,817	349	710	1,824	5,526	(Z)	457	4,884
344	Structural metal products.....	147	57	4,310	24,795	3,304	6,596	16,978	36,665	1,601	4,707	43,476
345	Screw machine products.....	29	11	934	5,569	784	1,598	4,265	8,874	1,425	807	6,540
346	Metal stampings.....	48	29	2,507	14,374	1,986	4,068	10,022	23,138	1,037	1,450	11,020
347	Metal services, n.e.c.....	47	8	843	4,592	699	1,308	3,164	8,163	583	673	5,380
349	Fabricated metal products, n.e.c.....	38	14	1,722	9,693	1,376	2,783	7,148	19,373	889	1,159	11,288
35	Machinery, except electrical...	649	219	37,288	237,232	24,762	50,693	136,813	486,977	30,763	27,888	252,576
352	Farm machinery and equipment...	86	40	6,292	33,428	4,868	9,347	24,268	70,260	2,385	4,404	45,082
353	Construction and like equipment.....	61	27	5,364	32,760	3,617	7,557	20,297	58,631	3,211	4,523	37,196
354	Metalworking machinery.....	95	22	1,835	11,151	1,445	3,063	8,236	17,770	867	2,189	18,738
355	Special industry machinery....	51	19	1,892	11,866	1,374	2,833	7,929	20,221	937	1,452	12,785
356	General industrial machinery...	74	28	2,483	15,756	1,702	3,800	9,366	28,746	603	1,868	16,436
358	Service industry machines....	52	22	4,834	30,466	3,339	7,015	17,563	67,530	2,164	4,392	40,407
359	Miscellaneous machinery.....	204	46	2,917	17,089	2,430	5,121	13,325	27,374	1,428	2,150	17,526

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36	Electrical machinery.....	153	80	18,987	121,910	12,252	24,486	62,463	224,139	7,773	10,787	92,108
361	Electric distribution products.....	15	7	1,045	4,136	820	1,595	2,862	6,107	(Z)	495	3,107
362	Electric industrial apparatus	30	13	3,073	20,155	2,076	4,273	11,925	33,157	1,264	2,979	29,496
346	Lighting and wiring devices...	20	9	1,074	5,647	859	1,690	3,676	17,746	1,350	193	1,919
367	Electronic components.....	38	20	1,978	9,837	1,558	3,208	6,525	26,350	765	1,796	12,449
369	Electrical products, n.e.c....	19	11	1,488	6,562	1,313	2,328	5,237	19,623	(Z)	477	2,993
37	Transportation equipment.....	111	38	8,086	55,670	6,656	14,130	43,228	131,497	3,137	8,739	97,821
372	Aircraft and parts.....	11	9	3,627	24,661	3,188	6,116	20,573	31,691	(Z)	4,187	28,443
379	Transportation equipment, n.e.c.....	16	2	216	912	181	374	667	1,705	(Z)	157	766
38	Instruments and related products.....	67	20	8,982	54,644	5,464	11,283	30,198	106,301	2,751	12,223	117,343
39	Miscellaneous manufacturing, including ordnance ³	204	67	12,078	68,603	9,632	19,064	50,065	119,019	4,066	9,496	84,622
394	Toys and sporting goods.....	65	23	2,214	9,222	1,947	3,809	6,907	19,632	2,093	1,550	10,498
--	Administrative and auxiliary ⁴ ..	-	-	16,754	133,518	-	-	-	-	-	11,502	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MINNEAPOLIS-ST. PAUL SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	2,599	966	166,637	1,071,015	103,790	206,844	576,295	1,972,060	99,133	146,037	1,396,579
20	Food and kindred products.....	253	127	19,747	124,758	13,420	26,705	80,787	259,888	11,012	22,272	253,376
201	Meat products.....	25	13	7,105	48,009	5,459	11,184	37,283	70,382	1,768	7,818	74,036
202	Dairies.....	41	24	2,353	15,550	1,170	2,214	6,516	33,078	1,378	2,755	25,604
204	Grain mill products.....	33	19	1,730	11,501	1,258	2,617	7,406	38,173	1,073	2,158	34,208
205	Bakery products.....	49	25	2,815	14,461	1,601	2,862	7,662	23,696	836	2,934	23,538
207	Candy and related products.....	21	9	1,100	4,646	937	2,004	3,461	10,665	646	935	7,958
208	Beverages.....	24	16	3,040	21,335	1,955	3,722	13,516	56,404	4,448	3,659	59,334
209	Miscellaneous foods and kindred products.....	40	16	1,365	8,453	879	1,793	4,492	25,351	811	1,793	27,273
22	Textile mill products.....	13	6	1,400	6,217	953	1,907	3,583	7,471	(Z)	1,810	5,277
225	Knitting mills.....	6	3	1,281	5,789	861	1,723	3,291	6,193	(Z)	1,652	4,046
23	Apparel and related products.....	137	58	4,700	17,761	4,051	7,384	12,336	32,530	533	6,176	33,759
231	Men's and boys' suits and coats.....	13	7	884	3,973	765	1,420	2,567	5,464	(Z)	1,323	7,209
232	Men's and boys' furnishings.....	18	13	1,095	4,298	914	1,576	2,686	8,608	(Z)	948	5,868
233	Women's and misses' outerwear.....	24	14	992	3,475	879	1,491	2,659	6,358	(Z)	1,403	7,367
239	Fabricated textiles, n.e.c....	60	18	1,299	4,315	1,135	2,238	3,274	7,393	(Z)	1,455	7,749
24	Lumber and wood products.....	88	25	2,505	14,940	1,964	4,329	10,390	31,030	1,371	3,074	34,554
243	Millwork and related products.....	53	16	1,995	12,555	1,509	3,454	8,459	26,269	1,086	2,351	27,665
249	Miscellaneous wood products...	19	7	352	1,663	307	583	1,280	3,363	(Z)	550	5,553
25	Furniture and fixtures.....	93	24	1,644	9,310	1,287	2,513	6,394	15,126	(Z)	2,058	14,086
251	Household furniture.....	54	13	1,062	6,159	830	1,654	4,015	9,787	(Z)	1,360	9,982
26	Paper and allied products.....	71	40	5,578	31,583	4,301	8,677	21,554	60,040	3,973	4,556	53,921
265	Paperboard containers and boxes.....	28	17	2,582	15,547	2,016	4,099	10,944	27,660	1,568	2,053	20,769

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MINNEAPOLIS-ST. PAUL SMSA—Continued												
27	Printing and publishing.....	416	108	17,252	105,753	10,251	18,696	58,848	172,034	7,667	16,546	136,798
272	Periodicals.....	44	9	725	4,372	113	205	595	10,643	(Z)	585	6,314
273	Books.....	23	7	2,122	13,052	1,541	2,885	7,815	21,409	(Z)	1,940	15,875
275	Commercial printing.....	238	62	8,993	56,114	5,623	10,753	33,226	81,121	3,633	8,840	70,188
276	Manifold business forms.....	11	4	257	1,611	175	303	832	2,070	(Z)	120	825
278	Bookbinding and related work.....	20	4	503	2,646	403	824	1,911	4,630	(Z)	385	2,810
279	Printing trades services.....	26	10	601	4,385	441	824	3,134	6,694	(Z)	613	5,124
28	Chemicals and allied products....	137	38	4,676	31,540	2,935	5,889	16,315	151,219	5,020	3,973	108,872
281	Basic chemicals.....	14	4	376	2,680	252	532	1,636	10,616	647	399	8,984
284	Cleaning and toilet goods.....	49	11	1,683	10,101	1,004	1,918	4,606	73,196	1,395	1,529	46,871
285	Paints and allied products.....	23	10	722	4,904	454	934	2,558	12,500	(Z)	730	7,905
29	Petroleum and coal products.....	19	11	1,239	9,215	796	1,746	5,206	38,409	15,812	1,117	24,909
30	Rubber and plastics products, n.e.c.....	93	23	2,692	14,094	2,142	4,303	10,005	30,086	2,085	1,865	13,907
32	Stone, clay and glass products..	91	28	6,071	46,127	3,225	6,289	21,403	116,395	4,272	3,566	68,035
33	Primary metal industries.....	60	33	2,477	15,370	2,142	4,492	12,314	24,881	1,447	1,960	16,236
332	Iron and steel foundries.....	15	10	853	5,623	749	1,567	4,630	10,303	608	774	7,216
336	Nonferrous foundries.....	25	14	1,118	6,782	1,001	2,149	5,618	9,483	(Z)	795	5,189
339	Primary metal industries, n.e.c.....	13	5	260	1,581	200	398	1,070	2,550	(Z)	134	1,567
34	Fabricated metal products.....	300	119	10,808	63,993	8,650	17,329	45,741	109,010	5,269	9,619	89,180
342	Cutlery, hand tools, hardware	22	4	460	2,150	347	618	1,122	5,167	(Z)	884	6,780
343	Plumbing and heating, except electric.....	11	6	401	2,612	299	616	1,693	5,132	(Z)	457	4,844
344	Structural metal products.....	115	49	3,810	22,365	2,953	5,871	15,522	32,738	988	4,053	36,607
345	Screw machine products.....	26	10	804	4,859	687	1,375	3,774	7,519	1,301	710	5,691
346	Metal stampings.....	44	28	2,430	14,097	1,912	3,916	9,761	22,741	986	1,239	9,522
347	Metal services, n.e.c.....	37	7	758	4,231	624	1,161	2,864	7,365	533	591	4,706
349	Fabricated metal products, n.e.c.....	26	11	1,170	6,585	969	1,976	5,072	11,837	716	903	8,597
35	Machinery, except electrical....	451	162	28,087	180,734	18,466	37,430	104,309	398,337	24,877	21,571	200,794
352	Farm machinery and equipment..	42	21	4,824	26,538	3,721	6,836	19,359	49,976	1,673	3,449	38,520
353	Construction and like equipment.....	35	21	3,952	24,750	2,602	5,415	15,174	41,469	1,833	3,412	27,262
354	Metalworking machinery.....	74	17	1,257	8,062	990	2,088	5,942	12,413	753	1,299	11,652
356	General industrial machinery..	63	23	2,227	14,514	1,497	2,951	8,497	26,816	547	1,622	14,221
358	Service industry machines.....	41	18	3,965	25,082	2,688	5,712	14,087	53,159	1,718	3,917	36,082
359	Miscellaneous machinery.....	144	39	2,300	13,978	1,918	4,064	10,825	21,552	1,237	1,654	13,833
36	Electrical machinery.....	118	66	16,241	109,162	9,996	19,954	53,744	194,292	6,430	7,186	67,662
361	Electrical distribution products.....	10	5	699	2,418	568	1,092	1,915	3,396	(Z)	170	1,447
362	Electric industrial apparatus.	24	11	2,791	18,934	1,868	3,837	11,021	31,162	1,245	2,679	27,834
367	Electronic components.....	32	18	1,768	9,117	1,371	2,799	6,364	24,446	715	1,364	8,919
37	Transportation equipment.....	63	27	7,041	51,007	5,812	12,344	39,944	123,077	2,557	7,507	88,049
373	Ship and boat building.....	14	3	317	1,465	252	487	1,065	2,742	(Z)	299	3,182
39	Miscellaneous manufacturing, including ordnance ³	135	52	9,932	59,136	7,963	15,673	43,409	102,404	3,500	7,946	70,783
394	Toys and sporting goods.....	36	15	1,646	7,070	1,472	2,749	5,260	15,696	1,884	1,306	7,925
399	Miscellaneous manufactures ³ ...	73	29	7,782	49,886	6,161	12,302	36,903	81,834	1,550	6,368	60,736
190												
--	Administrative and auxiliary ⁴ ...	-	-	15,649	126,074	-	-	-	-	-	10,901	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ¹Revised.²Includes expenditures for both plants in operation and for plants under construction but not in operation.³The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment as the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the areas.

USCOMM--DC

1963 CENSUS OF MANUFACTURES



MC63(P)-S25

preliminary
report

Area series

MISSISSIPPI

Value added by manufacturing in 1963 in the State of Mississippi amounted to \$1,022 million, an increase of 20 percent from 1962 and 59 percent from 1958. Of this total, \$135 million was contributed by the Lumber and Wood Products industries and \$133 million by the Food and Kindred Products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	2,366	850	128,309	486,765	107,968	214,125	365,956	1,022,498	62,773	118	159
1962 ³	(NA)	(NA)	119,615	427,989	100,832	197,215	321,108	848,877	109,125	110	132
1961 ³	(NA)	(NA)	111,478	378,274	92,859	181,103	279,384	759,486	39,302	103	118
1960 ³	(NA)	(NA)	108,889	358,164	91,151	175,350	268,973	697,394	40,862	100	108
1959 ³	(NA)	(NA)	111,117	365,685	93,804	184,322	278,783	706,214	63,900	102	110
1958.....	2,414	743	108,539	354,414	92,468	178,705	280,849	642,175	67,665	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

MISSISSIPPI

Incorporated places of 100,000 and over
 Incorporated places of 25,000-100,000
 Standard Metropolitan Statistical Areas

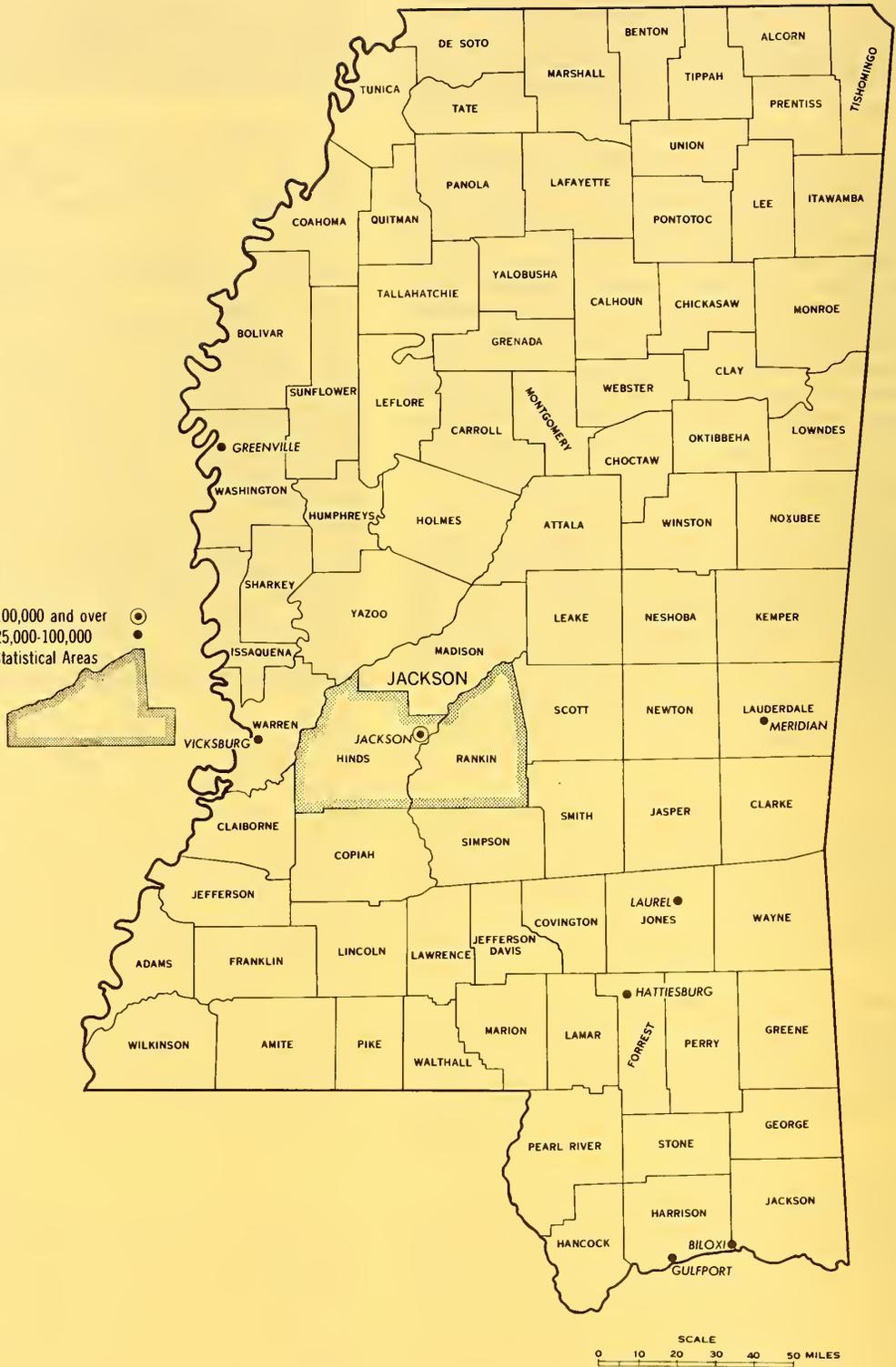


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MISSISSIPPI, TOTAL.....	2,366	850	128,309	486,765	107,968	214,125	365,956	1,022,498	62,773	108,539	642,175
STANDARD METROPOLITAN STATISTICAL AREAS											
Jackson ⁴	245	88	11,390	50,620	8,320	17,335	32,322	111,966	5,389	11,155	87,303
COUNTIES ¹											
Adams.....	49	16	3,740	22,334	3,110	6,411	18,134	65,834	5,257	4,100	36,172
Alcorn.....	39	19	2,835	9,660	2,521	5,006	7,574	19,601	1,545	1,974	9,831
Amite.....	22	7	605	1,542	539	999	1,292	2,566	(Z)	287	1,082
Attala.....	38	10	1,188	4,550	976	1,903	3,376	9,186	(Z)	910	5,804
Bolivar.....	25	6	1,250	4,401	1,081	2,240	3,449	10,548	(Z)	832	7,458
Calhoun.....	29	9	1,461	4,256	1,357	2,725	3,757	6,964	(Z)	1,141	3,835
Chickasaw.....	32	12	2,265	7,002	1,902	3,848	5,333	13,721	(Z)	1,566	9,782
Choctaw.....	6	.4	542	1,433	508	999	1,321	1,707	(Z)	332	963
Claiborne.....	22	5	640	1,997	576	1,170	1,616	7,336	(Z)	578	1,918
Clarke.....	22	5	1,199	3,560	1,111	2,161	3,148	7,163	(Z)	1,227	4,208
Clay.....	19	10	2,203	9,634	1,961	4,132	7,833	9,022	640	1,946	13,326
Coahoma.....	28	16	1,422	5,782	1,106	2,340	3,980	13,390	658	1,290	8,882
Copiah.....	38	14	1,815	5,107	1,634	3,115	4,294	9,670	(Z)	1,216	4,574
De Soto.....	15	7	378	1,728	324	672	768	4,220	(Z)	80	740
Forrest.....	70	26	3,810	13,994	3,127	5,660	9,912	36,058	1,402	3,529	24,170
George.....	14	3	371	891	351	703	816	1,415	(Z)	209	637
Greene.....	20	3	303	734	257	438	552	1,603	(Z)	443	1,812
Grenada.....	27	15	2,515	8,945	2,212	4,680	7,407	21,068	1,243	1,222	5,847
Harrison.....	112	34	2,689	10,164	2,027	4,023	6,755	28,361	1,631	2,603	21,456
Hinds.....	208	77	9,825	43,703	7,060	14,643	27,274	95,001	4,318	9,294	70,606
Holmes.....	19	5	717	2,156	657	1,182	1,875	5,740	(Z)	294	1,112
Humphreys.....	12	3	380	1,097	352	674	935	1,878	(Z)	327	901
Itavamba.....	17	8	1,870	5,073	1,772	3,376	4,707	8,440	(Z)	930	2,950
Jackson.....	57	25	8,881	54,388	7,402	14,118	38,875	100,047	7,661	12,165	85,889
Jasper.....	14	2	621	2,062	477	953	1,275	1,852	(Z)	659	3,267
Jefferson Davis.....	8	1	299	705	280	647	854	1,200	(Z)	260	592
Jones.....	63	23	5,528	26,972	4,685	9,722	21,943	58,005	4,948	5,748	42,074
Lafayette.....	3	3	441	1,504	347	712	1,042	1,603	(Z)	276	1,416
Lauderdale.....	109	43	4,387	16,411	3,467	6,850	11,639	32,423	1,281	4,197	25,035
Lawrence.....	10	3	724	2,055	692	1,306	1,859	2,682	(Z)	716	2,901
Leake.....	21	5	570	1,367	504	901	1,048	2,250	(Z)	438	1,390
Lee.....	68	37	5,987	20,036	5,058	10,259	15,530	43,545	2,423	4,205	26,720
Leflore.....	34	16	2,147	7,508	1,797	3,721	5,804	17,475	(Z)	733	5,612
Lincoln.....	26	11	1,369	4,993	1,176	2,360	3,698	9,561	(Z)	1,266	6,121
Lowndes.....	46	26	4,081	16,106	3,321	6,690	11,306	32,169	1,513	3,714	20,596
Madison.....	33	16	1,482	4,858	1,224	2,580	3,569	7,767	821	1,080	5,811
Marion.....	27	9	1,399	4,149	1,256	2,478	3,286	9,169	(Z)	1,631	5,566
Marshall.....	18	9	1,406	4,698	1,161	2,000	3,451	9,900	(Z)	749	3,908
Monroe.....	50	25	4,343	12,937	3,866	7,546	10,871	28,990	2,279	2,959	8,530
Montgomery.....	21	7	994	3,218	872	1,813	2,395	5,645	(Z)	754	3,220
Neshoba.....	28	5	937	2,660	850	1,666	2,297	4,785	685	836	3,191
Newton.....	24	9	1,870	5,116	1,699	3,192	4,347	9,112	(Z)	1,373	4,404
Noxubee.....	22	7	687	2,019	611	1,165	1,711	3,531	(Z)	391	1,316
Okfuskeena.....	28	10	722	2,241	568	1,022	1,638	7,687	(Z)	662	3,778
Panola.....	25	9	1,079	3,372	918	1,833	2,595	7,370	(Z)	825	3,442
Pearl River.....	37	12	1,531	5,020	1,258	2,456	3,579	6,479	(Z)	1,675	6,712
Perry.....	16	5	493	1,233	462	899	1,082	1,747	(Z)	384	1,126
Pike.....	47	19	2,589	7,711	2,261	4,449	6,028	11,214	847	2,451	8,391
Pontotoc.....	14	7	915	2,471	858	1,594	2,204	4,152	(Z)	633	2,108
Prentiss.....	22	10	2,109	5,698	1,960	3,676	4,955	10,409	(Z)	1,302	4,521
Rankin.....	37	11	1,565	6,917	1,260	2,692	5,048	16,965	1,071	1,861	16,697
Scott.....	30	12	2,010	5,535	1,869	3,543	4,831	19,347	1,551	937	5,308
Smith.....	15	5	435	1,086	385	739	907	1,487	(Z)	302	697
Stone.....	25	6	448	1,818	403	900	1,615	2,750	(Z)	448	2,352
Sunflower.....	16	6	1,275	4,272	1,121	2,154	3,574	8,483	(Z)	735	3,680
Tallahatchie.....	9	3	338	839	315	583	751	1,172	(Z)	149	198
Tippah.....	26	8	1,454	4,090	1,343	2,593	3,631	8,273	(Z)	791	3,744
Union.....	25	11	1,544	6,839	1,024	2,092	3,216	10,329	(Z)	1,148	5,656
Walthall.....	9	1	549	1,583	522	902	1,477	1,872	(Z)	469	1,350
Warren.....	49	24	2,870	12,490	2,217	4,631	8,944	22,551	1,071	2,515	16,367
Washington.....	64	28	4,012	17,078	3,222	7,067	12,179	39,098	4,087	2,708	17,672
Wayne.....	15	6	956	2,689	849	1,603	2,207	4,589	(Z)	600	1,819
Webster.....	17	3	574	1,878	483	1,029	1,420	3,098	(Z)	243	784
Wilkinson.....	37	5	592	1,665	534	1,064	1,431	2,142	(Z)	837	2,437
Winston.....	21	4	575	2,307	372	807	1,317	5,777	(Z)	896	3,586
Yalobusha.....	13	3	797	1,997	746	1,125	1,799	4,778	(Z)	422	531
Yazoo.....	22	9	1,321	6,175	969	2,043	3,503	25,596	(D)	1,096	11,214

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. Revised.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The Jackson Standard Metropolitan Statistical Area consists of Hinds and Rankin Counties, Mississippi.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,366	850	128,309	486,765	107,968	214,125	365,956	1,022,498	62,773	108,539	642,175
20	Food and kindred products.....	424	188	14,614	53,665	9,755	20,484	31,454	133,437	8,109	13,144	97,269
201	Meat products.....	80	36	5,384	18,584	4,579	9,366	14,024	33,111	2,225	3,606	21,135
202	Dairies.....	63	36	2,153	9,176	941	2,065	3,601	24,649	1,600	2,102	17,787
209	Miscellaneous foods and kindred products.....	83	31	1,756	6,714	1,374	3,176	4,706	20,937	1,275	1,851	12,060
22	Textile mill products.....	31	20	6,070	19,742	5,582	10,963	16,838	40,630	1,412	5,021	20,026
225	Knitting mills.....	19	14	3,627	10,775	3,348	6,333	9,060	15,904	888	2,875	10,837
23	Apparel and related products...	143	126	31,170	83,393	29,328	53,717	73,462	129,313	2,044	23,876	76,024
232	Men's and boys' furnishings...	86	84	23,937	64,040	22,607	41,482	56,447	97,376	1,552	18,134	55,818
234	Women's and children's underwear.....	14	14	2,638	6,716	2,422	4,324	5,935	12,122	(Z)	1,492	6,686
239	Fabricated textiles, n.e.c....	20	8	955	2,914	868	1,609	2,309	4,713	(Z)	1,000	3,409
24	Lumber and wood products.....	848	202	21,178	72,690	18,668	37,818	60,548	134,979	14,275	(³)	(³)
241	Logging camps and contractors.	368	10	1,746	3,582	1,527	2,835	3,168	7,366	1,483	1,860	5,133
242	Sawmills and planing mills....	377	134	9,475	26,684	8,378	16,591	22,844	44,311	4,672	10,786	30,663
243	Millwork and related products.	44	20	2,165	7,269	1,933	3,906	5,875	12,729	(Z)	2,466	9,966
244	Wooden containers.....	10	10	2,052	6,390	1,877	3,635	5,191	11,200	(Z)	2,429	10,419
249	Miscellaneous wood products...	49	28	5,740	28,765	4,953	10,851	23,470	59,373	7,487	(³)	(³)
25	Furniture and fixtures.....	82	38	7,090	25,679	5,808	12,125	19,077	48,442	1,050	4,948	28,267
251	Household furniture.....	64	34	6,588	23,817	5,380	11,189	17,600	43,702	967	4,681	26,946
26	Paper and allied products.....	20	16	4,759	29,041	4,179	8,758	23,535	56,815	7,185	(³)	(³)
265	Paperboard containers and boxes.....	10	8	626	2,706	494	1,067	1,852	4,452	(Z)	446	3,025
27	Printing and publishing.....	197	25	2,253	9,261	1,361	2,707	5,372	17,589	844	2,230	13,732
271	Newspapers.....	98	17	1,508	6,348	817	1,642	3,375	12,424	(Z)	1,450	9,266
275	Commercial printing.....	78	7	622	2,457	456	903	1,699	4,281	(Z)	514	3,207
28	Chemicals and allied products...	81	28	4,006	20,937	3,038	6,333	13,408	104,075	6,991	3,546	53,585
281	Basic chemicals.....	10	5	960	6,105	628	1,390	3,448	31,926	662	662	14,793
287	Agricultural chemicals.....	27	11	824	3,832	669	1,490	2,768	24,509	1,945	660	6,130
32	Stone, clay and glass products...	148	54	4,689	19,792	3,816	7,992	14,700	53,265	3,627	4,012	36,185
325	Structural clay products.....	22	19	1,443	5,427	1,200	2,542	3,925	10,320	1,183	1,051	6,951
327	Concrete and plaster products.	103	22	1,490	5,431	1,130	2,346	3,675	15,266	1,365	1,277	10,045
33	Primary metal industries.....	13	7	585	2,738	472	966	1,978	7,380	(Z)	480	2,377
34	Fabricated metal products.....	113	38	5,208	23,604	4,393	9,405	17,352	53,264	3,346	2,698	20,009
344	Structural metal products.....	78	20	2,386	11,613	2,016	4,332	8,782	27,142	1,252	1,946	14,562
35	Machinery, except electrical...	96	28	4,233	18,933	3,404	7,228	13,852	42,335	2,416	2,093	17,781
353	Construction and like equipment.....	10	7	1,176	5,939	873	1,934	4,066	12,455	629	748	5,776
359	Miscellaneous machinery.....	50	6	508	2,828	410	872	2,064	4,674	(Z)	371	3,309
36	Electrical machinery.....	33	24	5,261	19,574	4,464	8,347	14,716	49,437	4,172	3,000	27,920
37	Transportation equipment.....	40	18	8,309	47,914	6,659	12,824	33,293	60,450	3,181	11,340	70,287
39	Miscellaneous manufacturing....	40	10	2,688	9,332	2,401	4,901	7,534	26,338	648	982	5,040
394	Toys and sporting goods.....	8	2	301	1,002	261	497	793	1,732	(Z)	345	1,412
--	Administrative and auxiliary ⁴ ...	-	-	727	5,256	-	-	-	-	-	337	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ¹ Revised.² Includes expenditures for both plants in operation and for plants under construction but not in operation.³ The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.⁴ Not directly comparable due to the reclassification of Hardboard Products from Industry 2661 to 2499 in 1963. The combined totals for Group 24, Lumber and Wood Products, and Group 26, Paper and Allied Products, amounted to 27,724 employees and \$147,772 thousand value added by manufacture in 1958.⁵ In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)



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BUSINESS CYCLE DEVELOPMENTS is published monthly for specialists concerned with the analysis of current business conditions. It summarizes many of the available economic time series in convenient form for short-term evaluation and interpretation and supplements other Department of Commerce reports on the economy. The features of this report are:

- The arrangement of series according to their usual timing relations during the course of the business cycle.
- The inclusion of special analytical measures and historical cyclical comparisons that help in evaluating the current stage of the business cycle.
- The speed with which the data are collected, assembled, and published. BCD is issued about the 22d of each month covering data for the preceding month.

About 90 principal indicators and over 300 components are used for the different measures shown. The movements of the series are shown against the background of the expansions and contractions of the general business cycle so that "leads" and "lags" can readily be detected and unusual cyclical developments spotted. Since almost all of the basic data presented in this report are available in other published sources, the value of BCD lies in its analytical arrangement and speed of publication.

The presentation and classification of the time series in the BCD report follows the business indicators approach. The classification of series and the business cycle turning dates are those designed by the National Bureau of Economic Research which, in recent years, has been a leader in this field of investigation.

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**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES

MC63(P)-S26



preliminary report

Area series

MISSOURI

Value added by manufacturing in 1963 in the State of Missouri amounted to \$4,424 million, an increase of 10 percent from 1962 and 36 percent from 1958. Of this total, \$1,132 million was contributed by the transportation equipment industries and \$632 million by the food and kindred products industries, the two leading industry groups in the State.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	6,392	2,231	391,592	2,236,813	276,452	548,129	1,362,952	4,424,148	208,209	103	136
1962 ³	(NA)	(NA)	383,104	2,066,261	272,761	535,017	1,277,892	4,032,750	206,241	101	124
1961 ³	(NA)	(NA)	373,479	1,927,935	263,672	513,571	1,178,858	3,644,839	170,768	98	112
1960 ³	(NA)	(NA)	392,727	1,966,558	280,109	545,808	1,222,829	3,772,287	159,697	103	116
1959 ³	(NA)	(NA)	391,446	1,918,298	282,243	552,914	1,188,925	3,694,054	175,578	103	114
1958.....	6,437	2,215	380,373	1,770,445	271,463	519,349	1,088,712	3,250,749	185,879	100	100

(NA) Not available. ^x Revised.
¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
² Includes expenditures for both plants in operation and for plants under construction but not in operation.
³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
 BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MISSOURI, TOTAL.....	6,392	2,231	391,592	2,236,813	276,452	548,129	1,362,952	4,424,148	208,209	380,373	3,250,749
STANDARD METROPOLITAN STATISTICAL AREAS											
Kansas City ⁴	1,698	610	111,660	686,415	75,500	152,296	422,156	51,508,433	75,861	102,960	1,069,063
Portion in Missouri.....	1,328	478	84,796	512,141	55,186	109,018	295,955	51,035,583	56,933	79,222	765,843
Portion in Kansas.....	370	132	26,864	174,274	20,314	43,278	126,201	472,850	18,928	23,738	303,220
St. Joseph ⁶	107	53	10,344	56,598	7,533	14,970	39,232	101,159	4,594	11,017	94,401
St. Louis ⁷	3,126	1,228	259,146	1,659,123	179,493	360,045	1,007,392	3,247,607	168,797	262,504	2,416,983
Portion in Missouri.....	2,688	1,059	207,094	1,318,434	139,523	281,914	766,661	2,553,543	109,313	208,289	1,860,034
Portion in Illinois.....	438	169	52,052	340,689	39,970	78,131	240,731	694,064	59,484	54,215	556,949
Springfield ⁸	189	70	11,119	51,110	8,438	16,615	35,212	119,018	4,696	8,618	78,286
COUNTIES ¹											
Adair.....	16	6	1,059	3,566	966	1,896	3,174	8,388	(Z)	964	5,602
Audrain.....	37	14	3,349	17,724	2,632	5,104	12,681	33,654	1,487	2,973	26,750
Barry.....	39	12	1,125	4,165	972	1,858	2,997	7,759	(Z)	899	5,015
Barton.....	16	3	487	2,424	356	708	1,750	4,186	(Z)	584	5,010
Bollinger.....	20	5	478	1,397	397	703	996	1,806	(Z)	312	804
Boone.....	47	16	1,389	7,828	892	1,820	4,204	17,475	836	1,385	9,503
Buchanan.....	107	53	10,344	56,598	7,533	14,970	39,232	101,159	4,594	11,017	94,401
Butler.....	36	11	968	3,083	782	1,377	2,252	7,516	(Z)	837	4,549
Callaway.....	16	6	820	3,418	712	1,368	2,822	6,385	(Z)	1,034	7,315
Cape Girardeau.....	82	25	3,445	13,420	2,957	5,628	10,920	33,562	1,152	3,490	24,383
Carroll.....	13	3	495	1,766	439	918	1,367	3,965	(Z)	255	2,183
Cedar.....	10	5	587	2,040	541	1,034	1,816	3,615	(Z)	523	2,505
Chariton.....	10	3	307	891	277	498	717	1,549	(Z)	231	1,371
Christian.....	15	5	343	1,099	320	648	902	1,444	(Z)	168	721
Clay.....	120	65	10,194	59,888	7,354	13,813	39,401	173,968	9,212	8,991	139,095
Cole.....	43	11	2,007	8,113	1,637	3,241	6,132	15,939	558	2,183	12,710
Cooper.....	17	6	994	3,793	777	1,534	2,544	7,780	(Z)	888	4,554
Crawford.....	24	8	983	3,323	900	1,672	2,890	6,536	(Z)	616	3,967
Davies.....	9	2	334	832	253	520	702	1,275	(Z)	309	968
Dent.....	31	6	788	2,383	698	1,311	2,000	5,138	1,370	639	3,261
Dunklin.....	30	10	1,500	5,197	1,290	2,490	3,952	14,389	1,199	707	3,131
Franklin.....	74	34	4,844	19,170	4,165	8,154	15,536	40,020	1,716	5,429	34,157
Gasconade.....	15	7	1,484	5,109	1,364	2,535	4,643	12,160	(Z)	1,448	7,788
Greene.....	189	70	11,119	51,110	8,438	16,615	35,212	119,018	4,696	8,618	78,286
Grundy.....	10	3	637	3,021	552	1,214	2,259	6,390	(D)	520	2,478
Henry.....	24	8	878	3,225	719	1,346	2,277	6,736	(Z)	687	5,037
Howard.....	9	4	365	1,332	314	741	1,118	2,610	(Z)	77	436
Howell.....	49	12	1,517	4,736	1,385	2,545	3,979	11,155	(Z)	1,343	8,343
Iron.....	24	3	422	1,293	390	735	1,145	2,534	(Z)	354	2,092
Jackson.....	1,170	405	74,116	450,586	47,399	94,438	255,139	859,306	47,478	69,694	624,860
Jasper.....	158	60	8,407	41,112	6,343	12,646	26,747	78,652	2,444	7,718	61,504
Jefferson.....	44	12	3,232	19,677	2,554	4,901	14,731	42,493	2,208	2,676	27,813
Johnson.....	26	8	929	3,108	843	1,640	2,768	8,747	(Z)	982	5,029
Laclede.....	27	12	977	3,681	803	1,631	2,768	5,990	(Z)	794	1,777
Lafayette.....	26	10	728	2,378	634	1,176	1,906	3,823	(Z)	878	4,491
Lawrence.....	40	14	1,738	6,684	1,476	3,026	5,197	16,125	1,331	1,590	14,165
Lewis.....	10	2	310	1,588	270	579	1,396	2,402	(Z)	259	1,297
Lincoln.....	13	4	369	1,361	331	613	1,112	2,675	(Z)	411	2,101
Linn.....	15	6	755	2,285	692	1,131	2,003	5,043	(Z)	683	4,276
Livingston.....	21	10	858	2,779	745	1,436	2,247	7,657	660	605	2,514
McDonald.....	14	2	314	983	288	642	849	1,325	(Z)	161	629
Macon.....	12	3	848	3,045	774	1,693	2,718	7,102	(Z)	853	3,611
Maries.....	10	5	488	1,690	437	830	1,476	3,729	(Z)	414	2,318
Marion.....	35	11	1,967	7,610	1,534	2,758	5,368	13,756	(Z)	2,502	13,425
Miller.....	21	6	611	1,908	542	976	1,570	3,643	(Z)	922	3,979
Mississippi.....	20	3	609	1,741	572	919	1,562	3,152	(Z)	613	2,510
Moniteau.....	17	6	876	2,793	773	1,289	2,124	4,625	(D)	771	3,355
Montgomery.....	21	5	553	2,077	499	1,043	1,598	3,254	(Z)	361	2,877
Morgan.....	11	4	381	1,062	361	650	949	1,449	(Z)	305	1,053
New Madrid.....	14	7	650	2,370	550	1,160	1,741	3,023	(Z)	514	2,190
Newton.....	38	15	2,274	12,783	1,650	3,181	7,733	23,639	506	2,048	16,639
Oregon.....	17	1	312	798	285	445	719	2,320	(Z)	191	569
Osage.....	23	3	400	1,297	382	775	1,186	2,153	(Z)	410	1,217
Pemiscot.....	24	6	862	2,698	802	1,579	2,387	6,248	500	813	5,269
Perry.....	21	6	1,276	3,743	1,195	2,137	3,385	8,018	(Z)	1,196	6,201
Pettis.....	39	17	2,226	8,453	1,452	2,788	5,212	17,629	776	2,396	15,593
Phelps.....	27	6	830	2,872	715	1,307	2,243	5,498	(Z)	965	4,491
Pike.....	21	10	1,112	5,023	927	1,803	3,663	13,145	(D)	1,162	9,390
Polk.....	12	3	308	868	260	482	696	1,516	(Z)	101	520
Randolph.....	28	11	907	3,374	791	1,641	2,787	8,857	550	754	5,959
Ripley.....	24	2	255	739	185	322	398	1,027	(Z)	46	97
St. Charles.....	47	11	2,045	12,770	1,250	2,462	6,747	22,771	1,539	2,501	25,754
St. Francis.....	37	10	1,435	4,745	1,208	2,082	3,497	8,892	(Z)	1,512	8,077
St. Louis.....	597	206	66,689	471,855	41,996	87,289	247,503	957,959	35,763	53,899	454,766
St. Louis City.....	1,926	796	130,284	794,962	89,558	179,108	482,144	1,490,300	68,087	9143,784	91,287,564

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas and counties ⁴	1963									1958	
	Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Ste. Genevieve.....	17	6	1,397	6,635	1,160	2,242	4,746	14,426	736	1,240	11,707
Saline.....	22	7	2,222	7,333	2,050	4,085	6,595	17,176	(Z)	2,154	12,375
Scott.....	31	13	2,182	7,145	1,791	3,228	5,226	14,564	(Z)	2,237	10,797
Shannon.....	20	6	587	1,542	561	947	1,395	2,278	(Z)	317	1,700
Stoddard.....	31	10	1,895	5,282	1,737	3,127	4,617	10,747	(Z)	1,609	7,481
Texas.....	36	8	1,168	3,593	1,086	2,098	3,207	6,923	(Z)	1,213	6,884
Vernon.....	16	4	433	1,355	391	785	1,148	2,300	(Z)	345	1,696
Wright.....	18	2	672	2,086	597	1,080	1,632	3,728	(Z)	870	3,428

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^TRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Kansas City Standard Metropolitan Statistical Area consists of Cass, Clay, Jackson and Platte Counties, Mo., and Johnson and Wyandotte Counties, Kans.⁵See footnote 3 to table 4.⁶The St. Joseph Standard Metropolitan Statistical Area is coextensive with Buchanan County, Mo.⁷The St. Louis Standard Metropolitan Statistical Area consists of St. Louis City, Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo., and Madison and St. Clair Counties, Ill.⁸The Springfield Standard Metropolitan Statistical Area is coextensive with Greene County, Mo.⁹Revisions of published annual survey of manufactures volume data included in tabulation below.

ST. LOUIS COUNTY AND ST. LOUIS CITY 1958-1962 DATA REVISED

Counties	Establishments, number		All employees ¹		Production workers			Value added by manufacture	Capital expenditures, new
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
As published									
St. Louis County									
1958.....	473	155	48,215	263,124	33,925	67,265	158,306	432,019	17,659
1959.....	(NA)	(NA)	47,983	284,194	33,087	67,391	168,852	528,981	16,503
1960.....	(NA)	(NA)	46,758	286,719	31,383	63,950	167,381	474,237	12,522
1961.....	(NA)	(NA)	43,162	270,968	28,351	57,742	154,539	494,704	14,042
1962.....	(NA)	(NA)	46,817	311,543	31,079	63,602	172,735	554,667	27,343
As revised									
1958.....	478	160	53,899	300,896	35,814	71,107	168,258	484,746	25,027
1959.....	(NA)	(NA)	54,544	332,522	35,784	72,879	184,485	612,515	36,836
1960.....	(NA)	(NA)	57,781	356,745	37,689	76,414	201,585	583,904	17,660
1961.....	(NA)	(NA)	52,530	332,912	33,174	66,691	181,136	596,578	20,233
1962.....	(NA)	(NA)	56,125	376,438	35,834	73,255	201,766	665,431	31,560
As published									
St. Louis City									
1958.....	2,135	891	136,246	656,065	100,412	193,212	434,103	1,340,291	66,748
1959.....	(NA)	(NA)	140,730	714,929	104,585	206,436	470,812	1,472,797	73,337
1960.....	(NA)	(NA)	144,076	746,578	106,859	208,210	501,597	1,575,701	62,079
1961.....	(NA)	(NA)	134,309	717,585	98,149	190,953	472,837	1,491,897	72,108
1962.....	(NA)	(NA)	131,872	745,477	97,735	192,188	499,548	1,609,590	76,643
As revised									
1958.....	2,130	886	143,784	710,764	98,523	189,370	424,151	1,287,564	59,380
1959.....	(NA)	(NA)	147,381	759,072	101,888	200,898	455,179	1,389,263	53,004
1960.....	(NA)	(NA)	146,275	769,023	100,553	195,746	467,393	1,466,034	56,941
1961.....	(NA)	(NA)	138,163	748,112	93,326	182,004	446,240	1,390,023	65,920
1962.....	(NA)	(NA)	135,786	773,053	92,980	182,535	470,517	1,498,826	72,426

¹The revised employment and payroll figures for St. Louis County and St. Louis City include the employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total ²	6,392	2,231	391,592	2,236,813	276,452	548,129	1,362,952	3,424,148	208,209	380,373	3,250,749
20	Food and kindred products.....	846	343	47,966	274,046	32,240	63,576	170,355	631,991	36,831	52,293	561,191
201	Meat products.....	158	61	11,042	64,929	8,893	17,482	48,649	95,710	6,756	11,951	85,928
202	Dairies.....	138	66	6,997	39,423	3,685	7,671	18,060	79,671	4,619	8,677	75,519
203	Canned and frozen foods.....	44	15	2,412	8,905	2,166	4,681	7,385	27,983	783	2,222	12,245
204	Grain mill products.....	107	35	4,722	26,282	3,200	6,899	18,292	95,126	6,981	6,431	106,624
207	Candy and related products.....	26	15	1,467	5,090	1,189	2,142	3,673	8,124	(2)	1,214	6,929
208	Beverages.....	128	50	9,261	62,974	6,354	11,777	41,987	182,364	11,149	8,417	146,600
209	Miscellaneous foods and kindred products.....	131	40	3,894	21,892	2,036	4,035	9,352	55,598	3,589	4,074	49,352
23	Apparel and related products....	435	280	33,912	114,762	29,870	54,498	89,054	195,105	2,610	32,371	154,662
231	Men's and boys' suits and coats.....	22	17	3,037	11,027	2,620	4,880	8,231	18,056	(2)	2,622	13,702
232	Men's and boys' furnishings....	85	70	10,361	31,357	9,438	17,045	25,802	50,487	608	10,794	40,376
233	Women's and misses' outerwear.	124	94	11,122	41,434	9,600	17,143	30,762	71,682	809	11,105	62,739
234	Women's and children's underwear.....	10	9	1,155	3,333	1,001	1,670	2,511	6,527	(2)	916	4,363
235	Millinery, hats and caps.....	45	34	3,050	8,998	2,717	5,201	7,586	15,151	(2)	2,572	10,779
236	Children's outerwear.....	13	6	1,019	3,592	873	1,501	2,708	7,061	(2)	583	3,088
239	Fabricated textiles, n.e.c.....	119	38	3,085	11,643	2,614	5,234	8,452	20,893	522	2,866	17,182
24	Lumber and wood products.....	599	95	7,060	24,155	6,151	11,768	18,797	40,353	2,797	6,932	32,771
242	Sawmills and planing mills.....	340	40	3,178	8,946	2,844	5,212	7,411	15,596	1,570	2,985	11,542
243	Millwork and related products.	76	17	1,319	6,873	1,038	2,090	4,762	9,852	652	1,231	7,838
244	Wooden containers.....	29	9	737	2,589	642	1,329	2,010	4,745	(2)	689	3,011
249	Miscellaneous wood products....	92	28	1,590	5,222	1,402	2,713	4,105	8,803	(2)	1,880	10,163
25	Furniture and fixtures.....	199	69	5,091	25,124	4,125	8,188	17,876	43,431	1,016	5,756	37,900
251	Household furniture.....	111	37	2,533	11,458	2,066	3,906	8,223	21,341	559	3,398	22,193
254	Partitions and fixtures.....	45	18	1,240	8,001	993	1,875	5,521	10,400	(2)	1,037	7,262
259	Furniture and fixtures, n.e.c.	29	9	831	2,588	667	1,442	1,855	5,810	(2)	779	4,540
26	Paper and allied products.....	131	82	12,080	63,177	9,340	18,725	43,376	122,229	6,344	11,785	108,121
264	Paper and paperboard products.	62	36	5,759	30,332	4,283	8,533	19,946	52,341	2,618	5,693	44,413
265	Paperboard containers and boxes.....	60	42	6,096	31,622	4,864	9,815	22,453	67,209	3,661	5,801	60,687
27	Printing and publishing.....	1,092	230	26,840	153,145	16,094	31,052	88,145	280,606	13,057	26,584	221,090
271	Newspapers.....	292	43	7,482	42,127	4,123	7,765	24,538	79,886	2,376	7,439	61,436
273	Books.....	31	18	2,084	11,598	1,262	2,316	6,261	24,313	2,478	2,180	20,586
274	Miscellaneous publishing.....	21	4	337	1,405	62	100	221	2,165	(2)	414	3,030
275	Commercial printing.....	523	94	7,611	45,790	5,869	11,639	32,331	73,432	4,368	8,046	61,037
276	Manifold business forms.....	17	10	846	4,826	642	1,297	3,180	7,768	(2)	878	6,150
278	Bookbinding and related work..	46	22	1,573	7,819	1,364	2,646	5,993	14,190	756	1,177	7,665
279	Printing trades services.....	85	16	1,018	7,337	764	1,425	5,317	10,368	(2)	1,161	9,911
28	Chemicals and allied products...	394	132	20,068	130,925	12,170	24,525	69,478	393,365	22,901	18,535	302,606
281	Basic chemicals.....	27	21	7,059	52,074	4,424	8,796	30,351	123,851	12,736	7,095	111,959
283	Drugs.....	62	27	3,391	19,806	2,035	4,125	9,553	68,093	1,865	3,147	59,690
284	Cleaning and toilet goods.....	95	22	3,380	20,929	2,173	4,389	11,727	100,297	3,199	3,048	62,111
285	Paints and allied products....	65	30	2,869	17,941	1,482	3,099	75,595	47,046	996	2,466	33,363
287	Agricultural chemicals.....	34	13	1,299	8,133	726	1,494	3,657	22,294	1,584	1,000	9,807
289	Miscellaneous chemical products.....	53	14	1,559	10,109	917	1,784	5,130	27,444	1,031	1,595	24,101
29	Petroleum and coal products....	37	17	2,208	14,816	1,540	3,139	9,544	44,817	1,108	2,769	37,560
299	Petroleum and coal products, n.e.c.....	19	9	952	5,678	583	1,155	3,076	19,354	(2)	865	10,930
30	Rubber and plastics products, n.e.c.....	118	54	5,351	26,187	4,215	8,427	18,317	51,724	2,652	2,828	23,001
307	Plastics products, n.e.c.....	92	43	3,378	16,602	2,624	5,176	11,048	29,650	2,175	1,687	14,213
31	Leather and leather products....	157	123	27,309	88,476	25,233	45,136	74,757	183,834	3,094	34,605	188,115
314	Footwear, except rubber.....	79	72	21,706	67,591	20,454	36,016	59,563	148,292	2,306	28,779	155,331
316	Luggage.....	10	5	783	2,785	716	1,385	2,333	4,117	(2)	1,014	4,679
32	Stone, clay and glass products..	391	93	13,056	75,237	10,429	20,779	56,661	169,594	9,513	14,113	160,219
324	Cement, hydraulic.....	5	5	1,265	7,498	1,069	1,922	5,885	32,386	(2)	1,504	30,293
325	Structural clay products.....	24	19	3,803	22,409	2,997	5,947	16,267	41,493	(2)	3,551	35,277
327	Concrete and plaster products.	265	47	4,050	21,531	3,154	6,445	15,791	47,015	4,582	4,615	46,696
33	Primary metal industries.....	120	66	12,624	80,957	10,218	20,113	58,862	151,003	4,659	13,575	131,716
331	Steel rolling and finishing....	8	5	4,645	36,403	3,355	6,449	23,188	75,474	(D)	5,291	69,851
332	Iron and steel foundries.....	37	26	4,172	23,713	3,658	7,197	19,683	37,414	1,187	4,117	27,066
336	Nonferrous foundries.....	46	20	1,785	9,368	1,538	3,099	7,569	15,913	603	2,562	21,015
339	Primary metal industries, n.e.c.....	12	7	403	2,056	334	679	1,450	3,617	(2)	148	1,197

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products.....	560	200	24,454	146,113	18,804	38,509	101,067	270,584	13,989	24,925	225,547
341	Metal cans.....	9	6	2,526	18,272	2,244	4,572	15,519	39,982	3,918	2,243	36,403
342	Cutlery, hand tools, hardware.	43	21	2,068	12,440	1,718	3,456	8,883	21,055	582	2,456	18,860
344	Structural metal products.....	222	77	9,300	56,224	6,816	13,963	37,299	99,282	2,985	11,493	94,001
345	Screw machine products.....	36	11	1,043	6,182	787	1,692	4,135	10,921	583	1,204	8,944
346	Metal stampings.....	39	16	1,732	9,965	1,455	2,814	6,850	18,148	2,539	1,652	13,542
348	Fabricated wire products, n.e.c.....	36	18	1,951	10,748	1,467	2,985	6,788	21,039	1,256	1,922	19,016
349	Fabricated metal products, n.e.c.....	51	20	3,004	17,707	2,115	4,340	11,395	35,798	1,139	1,931	20,110
35	Machinery, except electrical....	629	164	26,243	156,997	18,512	37,421	100,814	275,412	11,789	20,775	185,897
352	Farm machinery and equipment..	41	11	2,080	10,797	1,421	3,048	8,061	18,222	1,001	1,922	21,630
354	Metalworking machinery.....	146	32	3,032	18,916	2,348	4,866	12,921	33,436	1,992	2,197	21,072
355	Special industry machinery....	58	17	1,954	12,401	1,083	2,199	5,770	22,149	2,387	1,820	12,798
356	General industrial machinery....	72	20	2,277	14,449	1,699	3,357	9,874	26,678	538	1,618	16,738
358	Service industry machines.....	50	27	7,336	42,387	4,845	9,430	24,361	75,940	1,576	6,758	58,549
359	Miscellaneous machinery.....	204	32	6,154	37,659	4,699	9,611	27,366	58,834	1,691	4,571	38,605
36	Electrical machinery.....	152	86	24,222	128,318	18,785	38,498	87,821	235,621	10,191	21,717	172,183
361	Electric distribution products.....	15	10	4,102	21,210	3,175	7,178	14,670	36,390	(Z)	5,004	47,572
362	Electric industrial apparatus.	26	14	5,403	31,269	4,185	8,422	22,954	40,693	2,843	7,263	52,812
364	Lighting and wiring devices....	46	26	4,263	24,765	3,068	6,177	14,523	54,035	1,885	3,618	33,671
366	Communication equipment.....	13	8	4,858	27,593	3,539	7,002	17,187	59,982	(D)	681	6,043
367	Electronic components.....	18	7	819	2,997	710	1,405	2,313	5,190	(Z)	1,108	4,814
37	Transportation equipment.....	150	69	58,452	438,580	41,250	89,993	272,217	³ 1,131,650	54,855	52,012	563,922
371	Motor vehicles and equipment..	85	46	22,993	175,989	19,001	43,399	138,052	³ 618,486	33,016	17,857	316,361
373	Ship and boat building.....	21	6	1,029	4,989	897	1,792	4,008	7,272	(Z)	1,118	9,377
379	Transportation equipment, n.e.c.....	21	4	391	1,571	334	660	1,247	3,605	(Z)	280	1,571
38	Instruments and related products	88	31	3,634	20,575	2,717	5,344	13,337	44,544	1,124	3,227	27,606
384	Medical instruments and supplies.....	35	13	1,383	7,674	988	1,887	4,422	12,087	(Z)	1,370	9,768
385	Ophthalmic goods.....	15	5	507	2,200	439	922	1,803	3,604	(Z)	424	2,218
39	Miscellaneous manufacturing, including ordnance ⁴	255	83	17,600	104,461	12,163	23,545	62,368	134,334	8,763	16,579	99,400
394	Toys and sporting goods.....	60	22	2,571	9,050	2,127	3,977	6,787	14,032	608	2,935	16,298
395	Pens, pencils and office supplies.....	22	9	894	3,916	677	1,360	2,388	6,569	(Z)	584	3,547
398	Miscellaneous manufactures ⁴ ..	150	44	13,705	89,905	9,003	17,577	51,978	110,752	7,941	12,622	76,984
399												
190												
--	Administrative and auxiliary ⁵ ...	-	-	20,383	158,049	-	-	-	-	-	16,367	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³The 1960-1962 value added figures for the State of Missouri have been revised as follows:

Industry	Value added by manufacture (\$1,000)					
	As published			As revised		
	1962	1961	1960	1962	1961	1960
All industries, total.....	4,153,853	3,783,580	3,872,287	4,032,750	3,644,839	3,772,287
37.....	1,032,104	814,653	898,383	911,001	675,912	798,383
371.....	738,964	551,212	648,101	617,861	412,471	548,101

No revisions to the 1959 and earlier years data are required.

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
KANSAS CITY SMSA (See footnotes at end of Table 2 for SMSA description)												
	All industries, total ²	1,698	610	111,660	686,415	75,500	152,296	422,156	³ 1,508,433	75,861	102,960	1,069,063
20	Food and kindred products.....	171	91	16,204	98,796	10,252	20,641	60,003	220,595	10,833	17,464	201,119
201	Meat products.....	26	14	5,446	36,838	4,126	8,431	28,090	51,104	1,536	5,816	45,840
202	Dairies.....	19	12	1,392	9,067	537	1,121	2,985	15,097	2,875	1,653	16,182
204	Grain mill products.....	32	21	2,554	14,808	1,689	3,553	10,340	54,184	3,328	3,369	57,339
205	Bakery products.....	23	14	3,306	18,554	1,920	3,747	10,017	33,090	1,354	3,319	35,850
208	Beverages.....	15	8	999	5,982	489	991	2,477	17,798	614	997	12,795
209	Miscellaneous foods and kindred products.....	36	16	1,788	11,010	817	1,588	3,883	30,595	1,203	1,655	27,513
23	Apparel and related products...	123	71	8,320	33,855	6,790	12,753	23,012	54,412	754	8,131	42,981
232	Men's and boys' furnishings...	17	15	1,765	6,755	1,348	2,346	4,156	12,337	(2)	2,166	6,736
233	Women's and misses' outerwear	42	31	4,234	18,711	3,502	6,539	12,530	28,857	(2)	4,091	25,726
239	Fabricated textiles, n.e.c....	39	12	807	3,564	655	1,288	2,364	5,924	(2)	1,129	7,408
24	Lumber and wood products.....	50	9	772	4,070	629	1,273	2,927	6,158	(2)	783	5,253
243	Millwork and related products	27	5	490	2,823	393	792	1,986	4,072	(2)	418	2,960
25	Furniture and fixtures.....	71	21	1,634	8,403	1,348	2,620	6,149	16,291	(2)	1,584	13,357
251	Household furniture.....	45	11	970	4,711	796	1,600	3,493	10,307	(2)	943	9,057
26	Paper and allied products.....	47	35	4,443	23,553	3,548	7,253	16,592	44,083	2,593	4,217	35,088
264	Paper and paperboard products	23	14	1,719	8,622	1,397	2,809	5,939	15,504	751	1,629	13,607
265	Paperboard containers and boxes.....	19	18	2,551	13,939	2,006	3,669	9,871	26,574	1,637	2,394	19,349
27	Printing and publishing.....	330	86	10,946	61,462	5,575	10,920	31,532	122,870	5,240	9,628	89,521
272	Periodicals.....	31	10	895	4,298	417	841	1,704	9,179	(2)	581	5,193
273	Books.....	15	9	700	2,976	498	895	1,844	6,807	(2)	628	5,365
275	Commercial printing.....	165	33	1,928	12,603	1,493	2,980	9,164	19,581	1,529	2,023	16,548
283	Chemicals and allied products..	117	40	5,465	36,051	3,079	6,330	17,478	157,159	4,281	5,324	109,582
283	Drugs.....	27	8	617	3,937	294	613	1,427	7,321	546	591	7,135
285	Paints and allied products....	23	11	1,484	8,996	751	1,620	3,655	26,861	(2)	1,259	20,684
287	Agricultural chemicals.....	8	5	806	4,975	387	762	1,574	12,889	1,225	466	3,926
30	Rubber and plastics products, n.e.c.....	47	15	1,375	7,124	946	1,825	4,193	10,634	821	760	5,809
307	Plastics products, n.e.c.....	43	15	1,352	7,048	928	1,788	4,137	10,457	826	670	4,916
31	Leather and leather products...	12	5	869	3,121	782	1,515	2,577	4,643	(2)	966	4,743
316	Luggage.....	7	4	768	2,739	707	1,366	2,307	3,991	(2)	836	3,982
32	Stone, clay and glass products.	73	26	4,085	25,161	3,333	6,794	20,405	53,221	6,424	3,875	50,102
327	Concrete and plaster products	44	15	933	5,932	729	1,404	4,319	12,427	1,463	1,476	18,493
33	Primary metal industries.....	43	21	5,742	41,412	4,372	8,055	27,480	82,381	2,537	6,007	73,910
34	Fabricated metal products.....	191	60	6,280	36,022	4,814	9,491	24,742	75,549	2,446	7,448	59,185
343	Plumbing and heating, except electric.....	13	5	410	1,894	343	704	1,552	2,469	(2)	429	2,158
344	Structural metal products....	75	27	3,050	18,204	2,247	4,548	12,116	34,021	903	4,952	35,929
346	Metal stampings.....	10	3	325	1,132	269	337	735	3,340	(2)	241	1,723
35	Machinery, except electrical...	181	48	7,322	44,774	4,736	9,483	25,993	80,647	6,081	5,285	48,548
352	Farm machinery and equipment.	21	8	1,354	7,125	910	2,011	5,505	13,166	874	1,033	13,584
353	Construction and like equipment.....	18	7	1,194	8,513	715	1,410	4,057	12,494	2,126	491	3,197
354	Metalworking machinery.....	36	9	457	3,037	376	800	2,281	4,858	(2)	329	2,854
355	Special industry machinery...	24	7	732	4,156	427	878	2,053	7,597	(2)	822	6,540
356	General industrial machinery.	15	3	752	4,597	457	903	2,684	10,323	(2)	778	7,931
36	Electrical machinery.....	63	32	8,291	42,928	6,499	13,046	29,160	88,921	4,806	3,046	21,017
364	Lighting and wiring devices..	12	7	633	2,282	529	1,035	1,604	4,404	(2)	426	2,238
366	Communication equipment.....	10	6	4,742	26,269	3,564	7,059	16,813	59,265	(2)	603	5,650
367	Electronic components.....	15	9	1,291	4,816	1,106	2,222	3,648	6,196	597	1,081	4,830
37	Transportation equipment.....	45	17	11,489	93,552	9,392	21,912	73,024	³ 355,037	18,948	12,711	198,468
38	Instruments and related products	29	7	663	3,044	506	1,014	2,095	5,243	(2)	578	4,148
385	Ophthalmic goods.....	7	2	319	1,276	277	555	1,012	1,998	(2)	230	1,261
39	Miscellaneous manufacturing, including ordnance ⁴	78	16	11,176	76,068	7,404	14,419	44,846	86,343	7,738	9,655	57,723
394	Toys and sporting goods.....	17	5	451	1,648	362	650	1,242	2,848	(2)	342	1,928
--	Administrative and auxiliary ⁵ ..	-	-	4,487	32,160	-	-	-	-	-	2,672	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ST. LOUIS SMSA (See footnotes at end of Table 2 for SMSA description)												
	All industries, total ²	3,126	1,228	259,146	1,659,123	179,493	360,045	1,007,392	3,247,602	168,797	262,504	2,416,983
20	Food and kindred products.....	345	138	25,646	168,016	17,296	33,305	109,863	382,497	20,463	30,792	353,765
201	Meat products.....	57	17	7,301	49,629	5,461	10,724	36,891	63,706	1,745	9,834	74,473
202	Dairies.....	45	22	2,305	14,738	773	1,618	4,626	27,486	1,324	3,485	33,140
203	Canned and frozen foods.....	21	6	461	1,975	316	584	1,060	3,310	(Z)	666	4,116
204	Grain mill products.....	23	13	1,871	13,764	1,285	3,004	8,969	46,280	2,421	2,484	42,371
205	Bakery products.....	67	33	4,084	21,870	2,566	4,726	12,264	43,709	1,000	5,055	40,339
208	Beverages.....	65	22	7,308	53,504	5,424	9,807	38,846	166,818	9,285	6,649	131,673
209	Miscellaneous foods and kindred products.....	55	17	1,529	9,300	918	1,838	5,228	25,337	4,387	2,063	24,063
23	Apparel and related products...	212	118	12,560	44,608	10,649	19,591	32,636	79,497	1,046	13,229	70,477
231	Men's and boys' suits and coats.....	14	10	2,210	8,525	1,893	3,545	6,220	13,858	(Z)	2,072	11,018
232	Men's and boys' furnishings..	21	11	1,248	4,499	997	1,750	3,031	8,249	(Z)	1,235	6,658
233	Women's and misses' outerwear	65	46	4,605	16,285	3,857	6,784	11,956	30,651	(Z)	5,727	30,346
234	Women's and children's underwear.....	7	7	742	2,037	613	1,044	1,357	3,293	(Z)	641	4,435
235	Millinery, hats and caps.....	28	21	1,620	5,218	1,503	2,912	4,467	8,329	(Z)	1,527	6,585
239	Fabricated textiles, n.e.c....	69	20	1,754	6,589	1,482	3,010	4,740	12,314	(Z)	(D)	(D)
24	Lumber and wood products.....	94	28	1,712	7,523	1,402	2,693	5,468	11,704	810	2,019	12,846
242	Sawmills and planing mills...	26	6	379	1,063	336	597	886	2,225	(Z)	352	2,036
243	Millwork and related products	37	10	603	3,570	438	875	2,323	4,342	(Z)	658	4,841
249	Miscellaneous wood products..	21	8	520	2,160	437	864	1,624	3,754	(Z)	790	4,972
25	Furniture and fixtures.....	102	41	3,510	17,605	2,802	5,735	12,365	29,236	731	3,990	26,155
251	Household furniture.....	47	22	1,511	6,946	1,239	2,318	4,951	12,160	(Z)	2,204	14,491
254	Partitions and fixtures.....	28	11	953	6,346	706	1,450	4,264	7,833	(Z)	788	5,404
259	Furniture and fixtures, n.e.c.....	20	5	631	1,718	512	1,113	1,176	4,212	(Z)	629	3,720
26	Paper and allied products.....	82	51	7,038	40,654	5,262	10,754	26,582	65,532	5,651	(D)	(D)
264	Paper and paperboard products	34	18	3,066	17,517	2,124	4,301	10,580	28,868	1,728	3,039	22,744
265	Paperboard containers and boxes.....	44	31	3,674	20,266	2,861	5,897	14,054	30,931	3,558	(D)	(D)
27	Printing and publishing.....	502	117	12,631	80,390	8,372	15,893	48,934	138,067	7,308	13,859	114,714
272	Periodicals.....	31	6	527	3,139	180	301	972	6,939	(Z)	1,052	9,449
273	Books.....	15	8	1,272	8,119	691	1,346	4,109	16,233	2,568	1,408	14,720
275	Commercial printing.....	281	52	4,862	29,574	3,724	7,294	20,461	47,958	2,485	5,424	41,815
28	Chemicals and allied products..	241	96	17,993	121,407	11,452	22,890	69,607	378,809	21,426	17,561	286,567
281	Basic chemicals.....	38	21	9,209	67,843	5,988	11,930	41,288	179,892	15,893	9,651	144,091
283	Drugs.....	38	17	2,358	13,696	1,417	2,853	6,511	56,479	932	2,330	50,322
284	Cleaning and toilet goods....	69	17	2,875	18,151	1,951	3,945	10,808	90,718	3,077	2,442	54,251
285	Paints and allied products...	45	18	1,333	8,720	696	1,402	3,795	19,170	(Z)	1,233	13,105
289	Miscellaneous chemical products.....	33	9	1,248	7,646	745	1,462	3,807	19,654	786	1,111	16,594
29	Petroleum and coal products....	27	16	5,220	39,319	3,515	6,223	22,510	134,986	6,321	6,871	94,358
299	Petroleum and coal products, n.e.c.....	13	7	710	4,314	426	856	2,311	16,701	(Z)	512	8,039
30	Rubber and plastics products, n.e.c.....	69	33	2,665	14,395	2,146	4,398	10,081	26,455	1,402	1,866	17,124
307	Plastics products, n.e.c.....	53	23	1,657	8,241	1,375	2,771	5,937	16,546	1,147	904	8,658
31	Leather and leather products...	78	51	6,959	24,998	6,422	10,972	18,808	38,211	1,051	12,189	63,413
313	Footwear cut stock.....	29	18	1,192	4,441	1,018	1,944	3,284	6,351	(Z)	(D)	(D)
314	Footwear, except rubber.....	22	16	3,636	12,034	3,657	5,689	9,625	19,601	527	8,520	43,851
317	Purses and small leather goods.....	11	9	1,473	5,596	1,183	2,311	3,668	8,637	(Z)	1,071	6,174
32	Stone, clay and glass products.	167	55	9,643	58,315	8,080	16,306	46,406	124,164	4,666	10,169	116,188
325	Structural clay products.....	12	11	1,111	6,146	926	1,802	4,729	10,967	557	1,069	9,268
329	Nonmetallic mineral products.	28	9	745	4,452	615	1,266	3,500	11,006	(Z)	946	10,817
33	Primary metal industries.....	89	62	23,508	160,460	19,698	38,630	122,109	272,802	33,840	21,460	205,200
332	Iron and steel foundries.....	25	24	6,760	42,019	5,822	10,955	32,208	69,553	3,541	5,070	33,031
335	Nonferrous rolling and drawing.....	9	7	5,090	32,476	3,993	8,071	23,016	53,426	(D)	3,361	41,127
336	Nonferrous foundries.....	28	13	963	5,433	822	1,659	4,383	9,670	(Z)	1,915	15,748
339	Primary metal industries, n.e.c.....	8	5	330	1,661	267	561	1,174	3,646	(Z)	111	1,118

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ST. LOUIS SMSA—Continued												
34	Fabricated metal products.....	346	143	18,796	113,938	15,207	29,771	79,828	197,241	10,234	18,306	174,304
342	Cutlery, hand tools, hardware	26	16	1,831	11,030	1,526	3,083	7,939	17,577	513	2,033	15,297
343	Plumbing and heating, except electric.....	18	9	1,525	8,247	1,163	2,269	5,507	15,918	(Z)	855	8,282
344	Structural metal products.....	124	46	6,218	39,162	4,491	9,277	25,826	67,026	2,068	(D)	(D)
345	Screw machine products.....	25	12	1,017	6,083	767	1,620	4,070	10,654	537	(D)	(D)
346	Metal stampings.....	33	16	1,738	10,000	1,467	2,826	6,936	18,202	2,513	1,632	13,970
347	Metal services, n.e.c.....	66	15	1,237	6,441	1,004	2,273	4,826	9,762	586	783	4,867
348	Fabricated wire products, n.e.c.....	15	8	857	4,799	694	1,354	3,293	8,264	(Z)	1,073	9,431
349	Fabricated metal products, n.e.c.....	36	19	2,632	15,362	1,908	3,895	10,472	23,256	1,175	2,248	23,730
35	Machinery, except electrical...	385	108	17,652	111,394	12,853	25,885	74,921	186,639	5,349	16,540	151,031
353	Construction and like equipment.....	25	10	905	6,098	589	1,241	3,336	11,495	(Z)	856	9,159
354	Metalworking machinery.....	112	24	2,715	18,953	2,118	4,240	13,481	30,515	1,696	2,809	25,798
356	General industrial machinery.	59	15	1,379	8,961	1,061	2,067	6,234	17,392	(Z)	1,613	17,171
358	Service industry machines....	31	18	5,243	29,801	3,551	6,945	18,023	53,839	1,225	(D)	(D)
359	Miscellaneous machinery.....	119	29	5,709	35,336	4,345	8,875	25,737	55,304	1,495	(D)	(D)
36	Electrical machinery.....	91	47	13,861	77,696	10,466	21,516	52,826	125,998	4,632	16,311	136,661 ²
361	Electric distribution products.....	12	7	3,853	20,048	3,014	6,872	14,169	34,384	(Z)	4,906	46,410
362	Electric industrial apparatus	17	11	5,199	30,501	3,957	7,909	21,929	34,985	2,309	7,156	52,012
363	Household appliances.....	12	6	1,122	5,282	894	1,590	3,634	9,421	(Z)	1,376	9,409
364	Lighting and wiring devices..	28	16	2,879	17,756	2,099	4,209	10,888	39,890	1,401	2,610	26,693
37	Transportation equipment.....	71	35	48,676	371,517	33,600	74,198	224,185	894,012	38,373	41,434	405,473
38	Instruments and related products	52	20	2,747	16,629	2,013	3,892	10,524	37,851	987	(D)	(D)
384	Medical instruments and supplies.....	21	9	1,119	6,426	801	1,511	3,648	10,145	(Z)	1,157	8,230
39	Miscellaneous manufacturing, including ordnance ³	147	59	9,599	48,995	6,395	12,685	29,102	97,258	3,750	9,733	84,281
394	Toys and sporting goods.....	25	10	1,061	4,015	787	1,638	2,863	7,152	(Z)	1,773	10,181
395	Pens, pencils, and office supplies.....	18	8	843	3,661	647	1,294	2,235	6,271	(Z)	517	3,061
398 399 190	Miscellaneous manufactures ⁴ ..	87	35	7,353	39,839	4,683	9,211	22,882	80,957	3,284	6,956	67,952
--	Administrative and auxiliary ⁵ ..	-	-	15,611	127,044	-	-	-	-	-	13,502	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³The 1960-1962 value added figures for the Kansas City SMSA have been revised as follows:

Industry	Value added by manufacture (\$1,000)					
	As published			As revised		
	1962	1961	1960	1962	1961	1960
All industries, total.....	1,561,961	1,329,874	1,364,538	1,440,858	1,191,133	1,264,538
37.....	479,974	337,336	426,897	358,871	198,595	326,897

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S27

preliminary
report

Area series

MONTANA

Value added by manufacturing in 1963 in the State of Montana amounted to \$235 million, an increase of 2 percent from 1962 and 23 percent from 1958. Of this total, \$67 million was contributed by the lumber and wood products industries and \$50 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employ-ee, number	Value added by manufac-ture
1963.....	973	191	20,279	108,090	16,009	31,520	81,426	224,783	27,960	100	122
1962 ³	(NA)	(NA)	18,973	102,182	14,962	29,798	75,511	229,148	23,370	93	120
1961 ³	(NA)	(NA)	19,182	101,337	15,056	29,608	73,868	212,621	18,170	94	111
1960 ³	(NA)	(NA)	20,220	100,321	16,045	30,244	73,775	205,626	(17,717)	100	108
1959 ³	(NA)	(NA)	19,382	93,680	15,858	29,477	70,794	217,985	16,048	95	114
1958.....	925	174	20,315	94,827	15,762	30,190	70,428	191,245	19,898	100	100

(NA) Not available. ¹Revised.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parentheses may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS,



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

MONTANA

Incorporated places of 25,000-100,000
Standard Metropolitan Statistical Areas

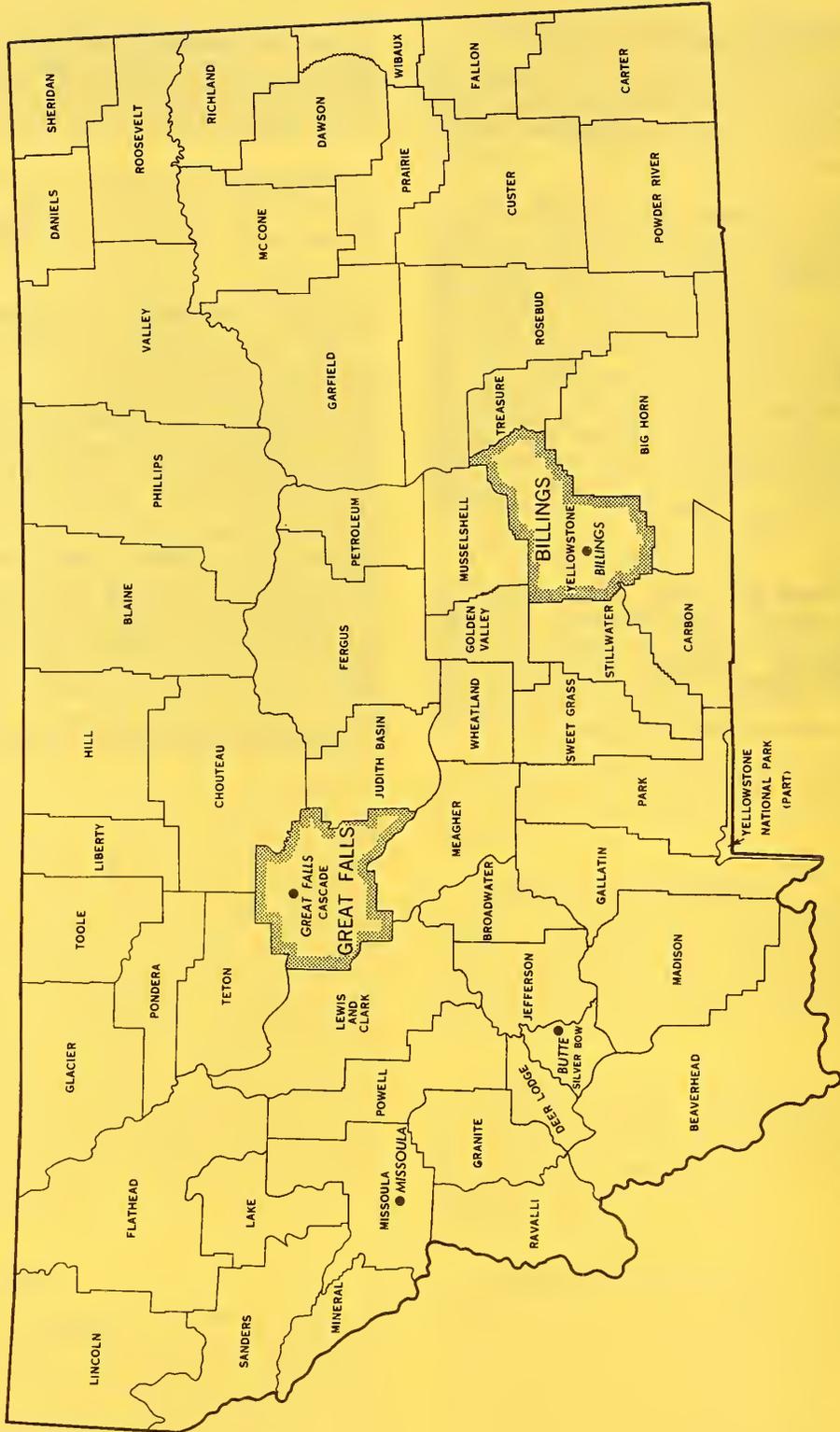


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MONTANA, TOTAL.....	973	191	20,279	108,090	16,009	31,530	81,436	234,783	27,960	20,315	^r 191,245
STANDARD METROPOLITAN STATISTICAL AREAS											
Billings ⁴	101	22	2,543	15,854	1,777	3,565	10,186	45,751	8,218	2,655	^r 33,518
Great Falls ⁵	61	25	2,884	15,888	2,065	3,721	10,365	42,583	1,943	2,786	^r 39,416
COUNTIES ¹											
Cascade.....	61	25	2,884	15,888	2,065	3,721	10,365	42,583	1,943	2,786	^r 39,416
Flathead.....	123	26	2,257	11,869	1,838	3,783	9,462	25,135	2,984	1,868	17,044
Gallatin.....	53	11	790	3,891	605	1,190	3,006	8,945	2,287	771	7,666
Lake.....	21	5	472	2,262	419	804	1,900	4,505	(Z)	212	1,206
Lewis and Clark.....	45	12	789	4,154	612	1,084	3,049	12,086	(Z)	723	4,436
Lincoln.....	83	11	1,809	9,293	1,570	3,158	7,734	13,251	660	1,442	10,742
Missoula.....	91	30	3,464	18,689	2,901	5,824	15,000	36,058	6,694	2,816	22,499
Ravalli.....	36	8	459	1,838	405	839	1,635	3,178	(Z)	296	1,997
Sanders.....	34	7	511	2,737	494	952	2,646	4,327	(Z)	529	3,185
Silver Bow.....	45	8	772	4,378	535	1,051	3,016	9,905	330	1,181	10,718
Yellowstone.....	101	22	2,543	15,854	1,777	3,565	10,186	45,751	8,218	2,655	33,518

(Z) Less than \$500 thousand. ^r Revised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Billings Standard Metropolitan Statistical Area is coextensive with Yellowstone County, Mont.⁵The Great Falls Standard Metropolitan Statistical Area is coextensive with Cascade County, Mont.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	973	191	20,279	108,090	16,009	31,530	81,436	234,783	27,960	20,315	^r 191,245
20	Food and kindred products.....	201	51	4,068	21,255	2,706	5,597	13,105	50,238	2,935	3,996	38,825
201	Meat products.....	35	7	738	4,299	570	1,145	3,042	9,749	(Z)	711	4,804
202	Dairies.....	62	13	985	4,820	472	1,009	2,025	11,439	763	871	8,313
204	Grain mill products.....	19	7	318	1,728	249	537	1,219	5,070	(Z)	371	3,873
205	Bakery products.....	28	11	663	3,315	346	696	1,670	6,636	(Z)	701	5,771
208	Beverages.....	30	7	490	2,561	318	582	1,512	6,195	(Z)	546	6,654
24	Lumber and wood products.....	434	85	8,325	41,043	7,426	14,707	35,298	67,294	9,256	6,669	47,549
241	Logging camps and contractors.....	228	26	1,667	7,370	1,511	2,892	6,727	15,411	2,893	1,000	6,412
242	Sawmills and planing mills.....	174	47	5,372	26,993	4,765	9,436	22,890	43,059	5,552	4,985	36,110
243	Millwork and related products.....	25	10	1,204	6,331	1,085	2,248	5,397	8,326	802	568	4,406
27	Printing and publishing.....	110	16	1,540	7,903	938	1,717	4,922	12,223	(Z)	1,889	14,021
271	Newspapers.....	74	11	1,188	6,239	702	1,270	3,758	9,753	(Z)	1,589	12,135
29	Petroleum and coal products.....	10	6	841	6,504	642	1,299	4,693	27,384	7,685	1,065	^r 18,411
34	Fabricated metal products.....	27	5	282	1,565	201	389	1,055	3,185	(Z)	317	2,461
--	Administrative and auxiliary ³	-	-	138	1,122	-	-	-	-	-	118	-

- Represents zero. (Z) Less than \$500 thousand. ^r Revised.¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

U.S. DEPARTMENT OF COMMERCE

**BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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1963 CENSUS OF MANUFACTURES

MC63(P)-S28



preliminary
report

Area series

NEBRASKA

Value added by manufacturing in 1963 in the State of Nebraska amounted to \$743 million, an increase of 7 percent from 1962 and 39 percent from 1958. Of this total, \$315 million was contributed by the food and kindred products industries and \$65 million by the electrical machinery industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	1,590	460	64,820	347,579	47,054	97,077	229,958	743,087	46,063	111	139
1962 ³	(NA)	(NA)	63,258	331,450	45,462	91,853	218,248	694,162	(43,560)	108	129
1961 ³	(NA)	(NA)	62,128	319,525	44,847	92,223	210,977	659,584	(39,262)	106	123
1960 ³	(NA)	(NA)	61,175	306,367	44,462	91,267	201,784	618,220	33,788	104	115
1959 ³	(NA)	(NA)	60,571	289,213	44,169	90,025	190,194	569,929	35,521	103	106
1958.....	1,536	412	58,627	265,223	42,902	86,972	174,196	536,317	49,906	100	100

(NA) Not available. [†] Revised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

July 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, ² number	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEBRASKA, TOTAL.....	1,590	460	64,820	347,579	47,054	97,077	229,958	743,087	46,063	^r 58,627	536,317
STANDARD METROPOLITAN STATISTICAL AREAS											
Lincoln ⁴	164	59	9,025	45,628	6,338	12,807	28,638	85,777	4,516	8,626	71,302
Omaha ⁵	585	214	34,992	205,982	24,845	51,017	136,100	423,895	19,979	33,047	317,001
Portion in Nebraska.....	524	197	33,214	197,479	23,642	48,451	131,135	405,633	18,574	31,098	303,246
Portion in Iowa.....	61	17	1,778	8,503	1,203	2,566	4,965	18,262	1,405	1,949	13,755
Sioux City ⁶	173	59	7,704	42,289	5,655	11,624	28,901	73,885	3,311	8,345	66,873
Portion in Iowa.....	163	56	7,519	41,661	5,533	11,391	28,492	72,132	3,113	8,231	65,892
Portion in Nebraska.....	10	3	185	628	122	233	409	1,753	(Z)	114	981
COUNTIES ¹											
Adams.....	46	18	1,508	7,210	1,152	2,433	4,575	18,504	(D)	1,068	8,032
Buffalo.....	32	7	820	3,116	613	1,278	2,020	10,633	(Z)	634	7,789
Dawson.....	50	14	1,489	8,482	1,142	2,999	5,432	23,020	662	537	5,561
Dodge.....	57	17	2,443	13,549	1,921	3,817	10,013	27,634	1,516	2,227	18,291
Douglas.....	513	194	32,663	194,259	23,172	47,522	128,587	394,437	17,167	30,580	295,119
Gage.....	19	9	1,384	6,036	1,004	2,036	3,741	10,575	(Z)	1,112	9,328
Hall.....	50	20	1,417	6,819	900	1,901	3,867	12,296	536	1,112	8,284
Lancaster.....	164	59	9,025	45,628	6,338	12,807	28,638	85,777	4,516	8,626	71,302
Lincoln.....	23	6	456	2,236	287	642	1,471	4,612	(Z)	468	3,962
Madison.....	30	10	736	3,162	501	1,084	1,788	9,880	1,326	534	4,477
Nemaha.....	11	4	344	1,317	294	571	1,020	2,647	(Z)	332	1,182
Otoe.....	16	7	931	3,877	772	1,677	2,775	14,247	(Z)	768	6,014
Platte.....	35	13	2,476	11,152	1,716	3,661	6,665	22,612	1,203	2,191	21,319
Saline.....	16	5	689	3,053	585	1,139	2,400	7,385	733	567	3,785
Sarpy.....	11	3	551	3,220	470	929	2,548	11,196	1,407	518	8,127
Scotts Bluff.....	46	15	1,470	7,488	1,188	2,246	5,309	18,729	1,308	1,320	14,503
York.....	17	4	272	1,440	234	495	1,042	4,163	(Z)	236	1,926

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^rRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Lincoln Standard Metropolitan Statistical Area is coextensive with Lancaster County, Nebr.⁵The Omaha Standard Metropolitan Statistical Area consists of Douglas and Sarpy Counties, Nebr., and Pottawatomie County, Iowa.⁶The Sioux City Standard Metropolitan Statistical Area consists of Woodbury County, Iowa and Dakota County, Nebr.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	1,590	460	64,820	347,579	47,054	97,077	229,958	743,087	46,063	^R 58,627	536,317
20	Food and kindred products.....	480	183	26,693	150,124	19,252	40,286	103,014	314,679	16,349	27,680	264,967
201	Meat products.....	109	52	12,615	78,749	10,273	21,042	62,339	114,012	5,696	13,360	115,901
202	Dairies.....	79	35	2,785	13,774	1,185	2,638	5,277	29,927	2,119	3,000	28,085
204	Grain mill products.....	143	44	3,558	20,309	2,560	6,359	14,044	67,748	4,016	3,190	42,362
208	Beverages.....	52	11	1,280	7,522	738	1,542	3,891	19,069	1,295	1,341	16,545
209	Miscellaneous foods and kindred products.....	43	14	1,147	5,771	807	1,711	3,454	28,105	1,287	1,176	18,720
23	Apparel and related products....	33	11	1,661	4,665	1,490	2,742	3,924	7,627	(Z)	1,533	7,307
232	Men's and boys' furnishings...	5	5	439	1,143	415	759	990	1,494	(Z)	516	1,854
24	Lumber and wood products.....	46	11	908	4,526	761	1,694	3,272	7,318	(Z)	810	4,319
243	Millwork and related products.	27	8	506	2,699	405	913	1,889	4,430	(Z)	1,836	2,703
25	Furniture and fixtures.....	40	13	1,256	6,779	929	1,915	3,893	11,282	548	1,033	8,093
251	Household furniture.....	25	9	595	3,300	489	1,018	1,987	5,406	(Z)	580	4,739
27	Printing and publishing.....	357	46	5,512	28,138	3,481	6,975	17,103	50,238	3,111	5,058	40,861
271	Newspapers.....	177	20	2,643	13,376	1,492	2,898	7,211	26,031	1,938	2,609	21,926
272	Periodicals.....	12	2	481	2,374	300	559	1,339	4,573	(Z)	231	2,010
28	Chemicals and allied products...	52	20	2,158	12,729	1,259	2,576	6,214	42,599	9,188	1,750	27,023
281	Basic chemicals.....	5	4	626	4,163	446	924	2,780	17,574	8,275	618	10,663
283	Drugs.....	14	9	969	6,005	385	805	1,797	16,240	(Z)	644	8,012
287	Agricultural chemicals.....	20	4	266	1,098	203	388	671	1,324	(Z)	163	1,547
30	Rubber and plastics products, n.e.c.....	14	7	1,410	8,209	1,147	2,439	6,317	15,379	1,160	1,146	9,799
32	Stone, clay and glass products..	123	21	2,236	11,071	1,753	3,701	7,976	31,744	3,468	1,813	22,576
327	Concrete and plaster products.	100	14	1,490	6,888	1,129	2,439	4,725	16,853	1,430	1,085	9,769
33	Primary metal industries.....	18	12	1,840	11,292	1,440	2,992	8,055	26,000	1,933	1,108	20,383
34	Fabricated metal products.....	99	37	3,848	21,249	2,801	5,719	13,076	40,054	2,338	3,583	39,552
344	Structural metal products.....	66	28	2,610	14,320	1,840	3,603	7,858	26,673	1,837	2,537	26,612
35	Machinery, except electrical...	154	35	3,309	16,728	2,508	5,207	12,836	47,664	1,399	3,252	27,888
352	Farm machinery and equipment..	57	19	1,533	6,997	1,146	2,354	5,694	14,944	(Z)	1,661	14,445
356	General industrial machinery..	11	6	1,114	6,362	822	1,723	4,508	26,440	680	913	8,521
36	Electrical machinery.....	29	12	5,450	29,335	3,972	7,928	18,909	65,055	2,676	3,349	22,796
37	Transportation equipment.....	29	15	3,389	17,668	2,680	5,683	11,371	34,096	724	2,064	16,724
371	Motor vehicles and equipment..	14	9	1,708	9,653	1,355	3,020	6,125	23,408	556	818	6,366
39	Miscellaneous manufacturing, including ordnance ³	68	13	1,688	6,496	1,408	2,798	4,700	14,735	712	1,786	10,004
398	Miscellaneous manufactures ³ ...	46	9	547	2,200	431	826	1,531	3,833	(Z)	1,082	5,004
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	880	7,303	-	-	-	-	-	918	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. ^RRevised.¹Includes expenditures for both plants in operation and plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)



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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S29

preliminary
report

Area series

NEVADA

Value added by manufacturing in 1963 in the State of Nevada amounted to \$112 million, an increase of 11 percent from 1962 and 65 percent from 1958. Of this total, \$32 million was contributed by the Stone, Clay, and Glass Products Industry, the leading industry group in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	282	74	6,965	43,499	4,999	9,947	29,415	111,733	8,760	138	165
1962 ³	(NA)	(NA)	†5,778	†35,668	†4,457	†8,990	†25,438	†100,909	(5,950)	115	147
1961 ³	(NA)	(NA)	†5,563	†33,246	†4,176	†8,470	†23,585	†92,659	3,580	111	137
1960 ³	(NA)	(NA)	5,347	30,978	3,772	7,711	21,034	72,416	5,437	106	107
1959 ³	(NA)	(NA)	5,209	29,462	3,726	7,542	20,362	66,632	5,510	103	99
1958.....	205	45	5,034	27,095	3,677	7,418	18,868	67,591	5,155	100	100

(NA) Not applicable. †Revised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

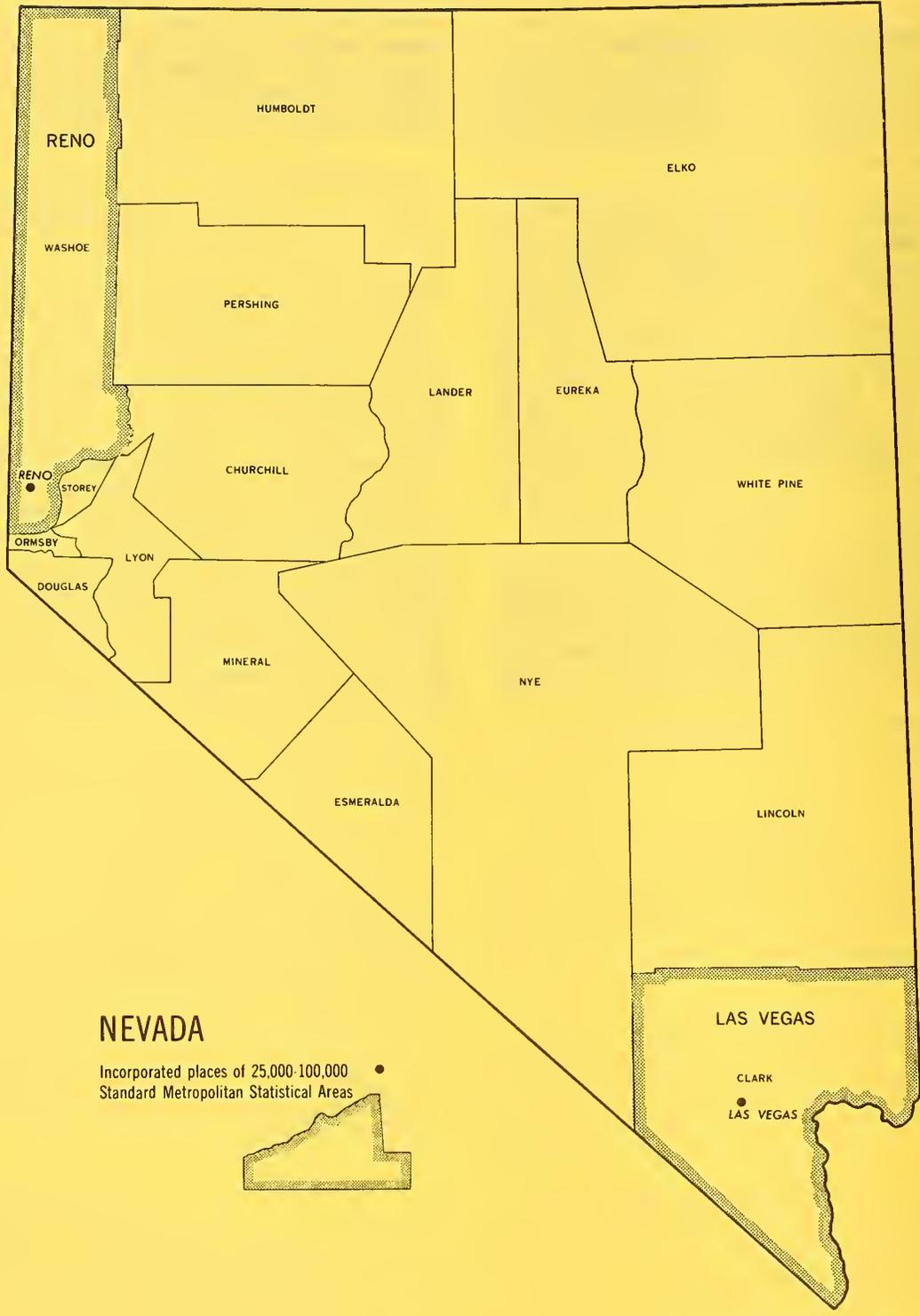
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



NEVADA

Incorporated places of 25,000-100,000
 Standard Metropolitan Statistical Areas

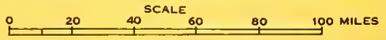
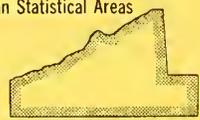


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEVADA, TOTAL.....	282	74	6,965	43,499	4,999	9,947	29,415	111,733	8,760	5,034	67,591
STANDARD METROPOLITAN STATISTICAL AREAS											
Las Vegas ⁴	109	35	3,856	24,894	2,705	5,428	16,840	70,819	6,215	2,416	37,992
Reno ⁵	112	29	2,113	12,609	1,566	3,073	8,348	27,619	1,803	1,921	17,915
COUNTIES ¹											
Clark.....	109	35	3,856	24,894	2,705	5,428	16,840	70,819	6,215	2,416	37,992
Washoe.....	112	29	2,113	12,609	1,566	3,073	8,348	27,619	1,803	1,921	17,915

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for plants under construction but not in operation.

⁴The Las Vegas Standard Metropolitan Statistical Area is coextensive with Clark County, Nevada.

⁵The Reno Standard Metropolitan Statistical Area is coextensive with Washoe County, Nevada.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	282	74	6,965	43,499	4,999	9,947	29,415	111,733	8,760	5,034	67,591
20	Food and kindred products.....	46	15	1,011	6,431	491	989	2,664	11,376	757	776	7,701
202	Dairies.....	11	7	465	3,004	162	319	1,019	3,793	(Z)	317	3,489
24	Lumber and wood products.....	24	4	362	1,967	327	614	1,647	4,654	297	504	3,526
27	Printing and publishing.....	61	10	1,181	6,147	823	1,580	4,187	12,281	588	700	6,776
271	Newspapers.....	29	5	936	4,537	633	1,197	2,886	9,216	(Z)	521	5,334
32	Stone, clay and glass products	45	20	1,518	10,993	1,156	2,491	8,261	31,812	2,575	946	14,277
327	Concrete and plaster products.....	38	19	1,323	9,626	994	2,152	7,182	27,527	2,533	779	12,079
--	Administrative and auxiliary ³ .	-	-	16	146	-	-	-	-	-	30	-

- Represents zero. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishments at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

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1963 CENSUS OF MANUFACTURES



MC63(P)-S30

preliminary report

NEW HAMPSHIRE

Area series

Value added by manufacturing in 1963 in the State of New Hampshire amounted to \$654 million, an increase of 7 percent from 1962 and 33 percent from 1958. Of this total, \$107 million was contributed by the leather and leather products industries and \$105 million by the electrical machinery industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	1,510	543	85,347	384,559	69,631	137,525	275,372	654,075	28,865	107	133
1962.....	(NA)	(NA)	81,178	359,392	65,604	130,074	254,853	609,939	31,173	102	124
1961.....	(NA)	(NA)	81,139	346,410	66,468	131,205	248,714	588,843	28,615	102	120
1960.....	(NA)	(NA)	84,080	342,046	68,977	135,960	249,718	598,144	26,344	106	122
1959.....	(NA)	(NA)	86,634	341,737	72,021	142,424	254,515	578,177	25,028	109	118
1958.....	1,446	494	79,582	297,624	65,588	128,144	221,083	490,709	24,365	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

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CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

NEW HAMPSHIRE

Incorporated places of 100,000 and over
Incorporated places of 25,000-100,000
Standard Metropolitan
Statistical Areas

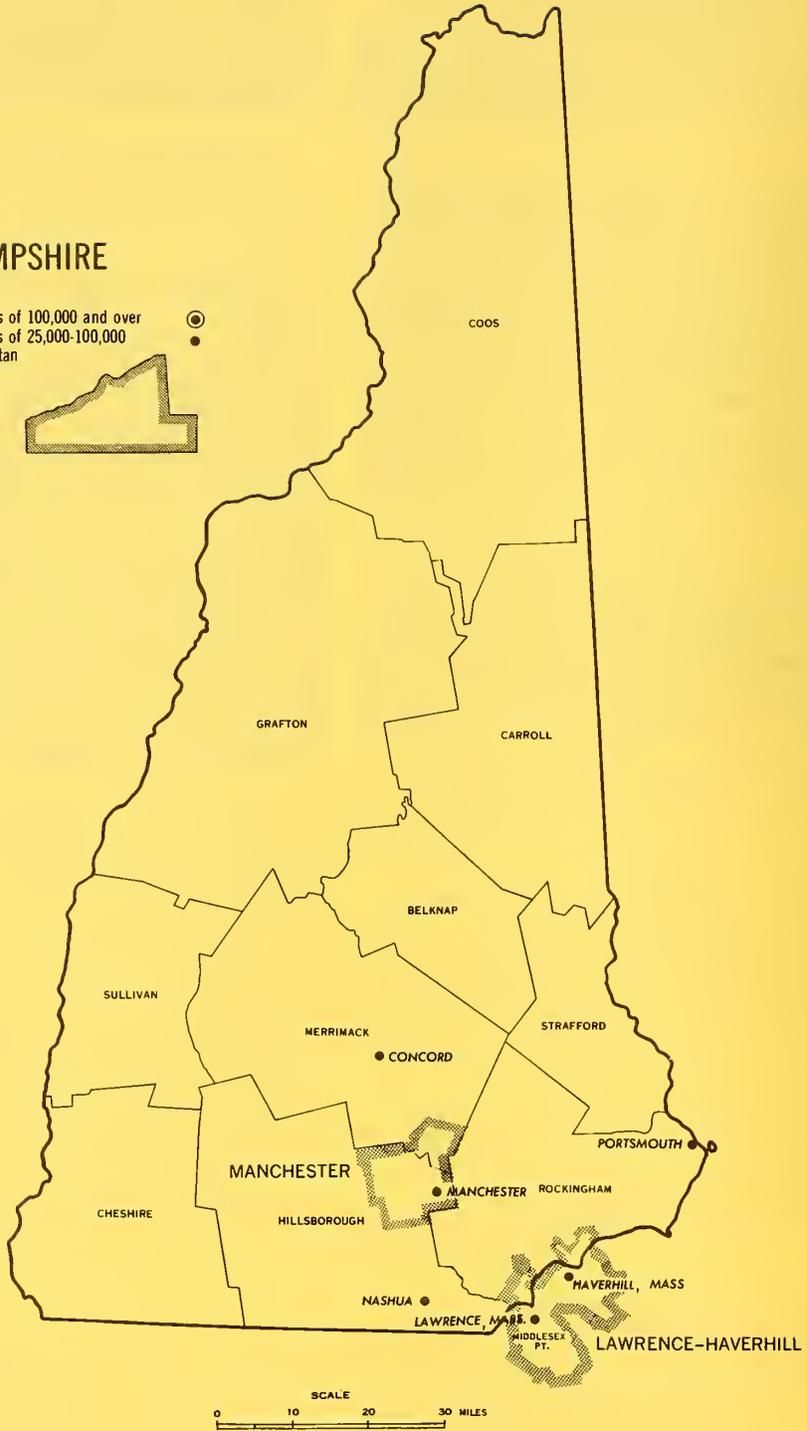


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW HAMPSHIRE, TOTAL.....	1,510	543	85,347	384,559	69,631	137,525	275,372	654,075	28,865	79,582	490,709
STANDARD METROPOLITAN STATISTICAL AREAS											
Lawrence-Haverhill ⁴	469	188	41,787	213,111	30,354	58,153	131,705	359,089	16,312	36,361	268,186
Portion in New Hampshire.....	30	6	427	1,503	310	556	883	2,469	(2)	163	960
Portion in Massachusetts.....	439	182	41,360	211,608	30,044	57,597	130,822	356,620	16,062	36,198	267,226
Manchester ⁵	212	99	17,375	73,793	14,021	26,784	52,395	124,426	3,289	18,380	98,290
COUNTIES ¹											
Belknap.....	85	27	3,650	17,149	2,998	6,339	12,806	27,689	1,037	3,698	25,179
Carroll.....	68	12	787	2,666	679	1,416	2,142	4,844	(2)	827	4,254
Cheshire.....	159	57	6,727	31,443	5,543	11,460	22,367	53,229	1,797	7,231	46,692
Coos.....	106	25	5,155	25,687	4,303	8,911	19,457	43,915	2,558	5,695	39,526
Grafton.....	116	34	4,581	19,431	3,962	8,348	15,088	38,147	1,480	4,195	24,395
Hillsborough.....	448	201	35,469	162,807	28,056	54,559	112,034	265,561	10,905	32,561	189,738
Merrimack.....	169	61	7,529	34,671	6,268	12,857	25,931	60,871	2,897	5,923	35,773
Rockingham.....	162	53	6,274	25,340	5,208	9,495	17,878	41,203	2,242	6,324	37,510
Strafford.....	126	50	12,174	51,037	10,219	19,251	37,854	92,697	3,375	10,362	67,113
Sullivan.....	71	23	3,000	13,828	2,395	4,889	9,815	25,919	2,338	2,766	20,529

(2) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (for a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Lawrence-Haverhill Standard Metropolitan Statistical Area consists of Lawrence and Haverhill Cities and Andover, Georgetown, Groveland, Merrimack, Methuen, North Andover, and West Newbury Towns in Essex County, Mass., and Newton, Plaistow and Salem Towns in Rockingham County, N.H.⁵The Manchester Standard Metropolitan Statistical Area consists of Manchester City, Bedford and Goffstown Towns in Hillsborough County, and Hookset Town in Merrimack County, N.H.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, ¹ (\$1,000)	All employ- ees, number	Value added by manufac- ture (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	1,510	543	85,347	384,559	69,631	137,525	275,372	654,075	28,865	79,582	490,709
20	Food and kindred products.....	149	39	2,825	13,481	1,529	3,235	6,264	28,804	1,559	3,129	21,127
201	Meat products.....	15	7	545	2,658	436	914	1,831	4,042	(Z)	654	3,929
202	Dairies.....	60	13	891	3,971	355	753	1,430	8,877	539	799	5,724
205	Bakery products.....	26	5	552	2,974	260	577	1,105	5,241	(Z)	647	4,248
208	Beverages.....	23	9	498	2,416	244	493	1,026	7,401	(Z)	404	3,187
22	Textile mill products.....	92	70	11,014	43,560	9,795	19,816	35,466	77,461	2,153	13,131	69,614
223	Weaving, finishing mills, wool	17	17	3,665	15,142	3,432	7,004	12,930	25,776	(Z)	4,364	26,693
224	Narrow fabric mills.....	16	10	499	2,273	440	872	1,702	4,369	(Z)	736	4,796
225	Knitting mills.....	21	15	2,373	7,614	1,933	3,632	6,000	15,453	(Z)	2,892	12,801
23	Apparel and related products....	47	29	1,943	5,905	1,757	3,121	5,005	9,639	(Z)	1,479	5,689
232	Men's and boys' furnishings....	11	9	691	1,989	649	1,118	1,798	3,409	(Z)	308	1,826
233	Women's and misses' outerwear.	9	7	389	1,067	378	665	980	1,435	(Z)	453	1,315
24	Lumber and wood products.....	384	60	4,692	16,983	4,049	8,880	13,876	28,698	2,276	5,289	24,680
241	Logging camps and contractors.	157	7	791	2,705	663	1,926	2,123	683	683	802	4,278
242	Sawmills and planing mills....	134	15	1,053	3,479	901	1,897	2,874	5,461	731	1,322	5,734
243	Millwork and related products.	30	14	1,324	5,486	1,173	2,471	4,465	11,392	(Z)	1,229	5,755
244	Wooden containers.....	21	8	560	1,796	463	1,062	1,582	2,812	(Z)	770	2,972
249	Miscellaneous wood products....	42	16	964	3,517	849	1,757	2,832	5,107	(Z)	1,166	5,941
25	Furniture and fixtures.....	44	22	2,227	9,874	1,773	3,497	7,096	15,627	(Z)	1,643	9,433
251	Household furniture.....	33	15	1,635	6,525	1,321	2,543	4,617	11,020	(Z)	1,270	7,250
26	Paper and allied products.....	49	39	5,870	32,832	4,885	10,494	25,935	74,229	4,614	6,213	58,465
262	Paper mills, except building...	16	12	2,184	13,070	1,856	4,113	10,496	29,117	1,721	2,401	20,512
264	Paper and paperboard products.	13	11	1,891	10,060	1,432	3,099	7,516	23,443	2,132	1,960	18,400
27	Printing and publishing.....	149	30	3,735	19,970	2,643	5,182	12,989	30,289	1,428	3,108	22,921
271	Newspapers.....	44	14	1,153	5,895	678	1,298	3,506	9,356	(Z)	866	6,764
275	Commercial printing.....	60	4	1,266	7,263	1,092	2,361	6,014	9,566	559	1,065	7,215
28	Chemicals and allied products...	25	6	602	3,623	449	984	2,180	7,763	(Z)	244	3,078
30	Rubber and plastics products, n.e.c.:											
307	Plastics products, n.e.c.....	17	12	1,564	6,729	1,328	2,616	4,802	11,132	959	343	1,690
31	Leather and leather products....	117	88	20,454	74,029	18,507	32,719	60,910	106,793	1,987	20,256	97,339
311	Leather tanning and finishing...	17	15	1,615	7,821	1,427	2,877	6,488	8,747	(Z)	1,758	10,971
314	Footwear, except rubber.....	62	55	17,331	60,765	15,757	27,406	50,251	88,106	1,513	16,871	77,937
32	Stone, clay and glass products..	66	17	1,759	8,718	1,402	2,880	6,120	16,815	1,429	1,462	11,294
327	Concrete and plaster products.	43	5	538	2,933	372	845	1,875	6,517	771	416	4,019
329	Nonmetallic mineral products..	7	5	788	3,698	640	1,272	2,593	7,363	(Z)	845	5,873
33	Primary metal industries.....	24	14	1,696	8,642	1,340	2,728	5,903	16,118	501	1,747	15,762
34	Fabricated metal products.....	71	26	2,107	10,087	1,731	3,639	7,142	17,328	741	1,593	10,695
342	Cutlery, hand tools, hardware.	16	10	699	3,332	614	1,284	2,455	4,787	(Z)	535	2,935
344	Structural metal products.....	32	10	714	3,280	558	1,139	2,218	6,233	(Z)	446	3,467
35	Machinery, except electrical....	120	31	8,000	46,749	5,864	12,762	29,449	79,047	3,922	7,147	59,727
354	Metal working machinery.....	25	5	716	4,217	506	1,124	2,525	8,376	(Z)	537	4,221
355	Special industry machinery.....	21	10	3,411	20,805	2,502	5,627	13,177	32,053	2,060	3,906	32,084
359	Miscellaneous machinery.....	48	5	459	2,371	380	793	1,807	3,847	(Z)	221	1,427
36	Electrical machinery.....	63	37	11,683	60,105	8,898	17,511	39,027	104,725	4,023	7,726	55,546
367	Electronic components.....	18	11	4,703	19,702	3,988	7,606	14,596	31,793	1,645	3,064	16,488
38	Instruments and related products	17	4	546	2,456	452	934	1,730	4,548	(Z)	267	1,917
39	Miscellaneous manufacturing....	53	14	2,138	7,898	1,867	3,736	6,692	15,278	1,260	2,163	12,545
394	Toys and sporting goods.....	19	7	1,334	4,464	1,158	2,316	3,822	9,390	1,056	1,200	6,835
398												
399	Miscellaneous manufactures....	22	4	582	2,513	540	1,079	2,234	4,089	(Z)	568	4,109
190												
--	Administrative and auxiliary ³ ...	-	-	899	6,291	-	-	-	-	-	1,332	-

n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for small industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

("All manufacturing" totals for the Lawrence-Haverhill SMSA (which includes Newton, Plaistow and Salem Towns in Rockingham County New Hampshire) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures Preliminary report for the State of Massachusetts.)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume 1, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES



MC63(P)-S31

preliminary report

Area series

NEW JERSEY

Value added by manufacturing in 1963 in the State of New Jersey amounted to \$9,980 million, an increase of 5 percent from 1962 and 33 percent from 1958. Of this total, \$1,322 million was contributed by the electrical machinery industries and \$2,120 million by the chemicals and allied products industries, the two leading industry groups in the State.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.—GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	14,906	5,351	829,176	5,111,937	576,142	1,151,133	3,031,138	9,980,065	520,578	104	133
1962 ³	(NA)	(NA)	805,165	4,779,060	566,617	1,128,058	2,927,871	9,494,591	532,591	101	127
1961 ³	(NA)	(NA)	793,140	4,528,426	557,911	1,100,269	2,765,408	8,757,551	467,640	100	117
1960 ³	(NA)	(NA)	785,944	4,737,180	581,713	1,147,085	2,775,750	8,631,900	472,623	103	115
1959 ³	(NA)	(NA)	782,224	4,365,987	584,633	1,158,973	2,727,474	8,353,866	436,420	102	111
1958.....	14,009	4,995	794,947	4,066,138	564,227	1,100,953	2,508,089	7,499,367	454,117	100	100

(NA) Not available. ¹Revised.
¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
²Includes expenditures for both plants in operation and for plants under construction but not in operation.
³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
 BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

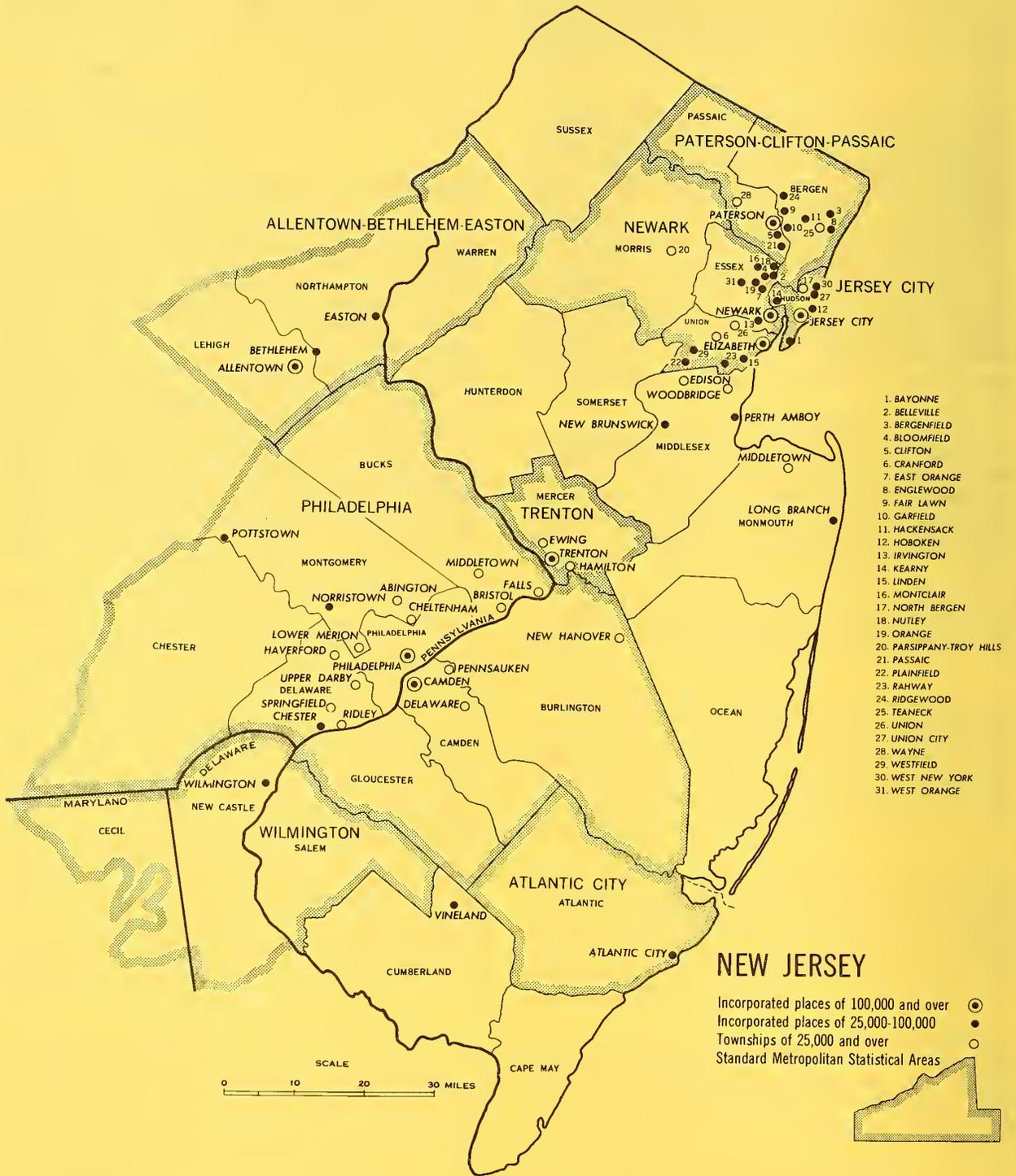


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW JERSEY, TOTAL.....	14,906	5,351	829,176	5,111,937	576,142	1,151,133	3,031,138	9,980,065	520,578	^F 794,947	7,499,367
New York-Northeastern New Jersey SCA ⁴	49,016	15,458	1,778,037	10,607,640	1,200,484	2,345,615	5,811,892	19,123,842	724,067	^F 1,795,479	15,267,750
Portion in New Jersey.....	11,660	4,188	631,361	3,908,152	431,519	871,770	2,276,376	7,730,192	378,414	^F 612,978	5,879,227
Portion in New York.....	37,356	11,270	1,146,676	6,699,488	768,965	1,473,845	3,535,516	11,393,650	345,653	^F 1,182,501	9,388,523
STANDARD METROPOLITAN STATISTICAL AREAS											
Allentown-Bethlehem-Easton ⁵	1,017	543	94,114	521,288	70,171	132,081	325,375	817,257	55,182	93,923	683,803
Portion in New Jersey.....	129	67	11,065	62,954	7,994	16,079	40,217	106,443	7,826	10,417	85,656
Portion in Pennsylvania.....	888	476	83,049	458,334	62,177	116,002	285,158	710,814	47,356	83,506	598,147
Atlantic City ⁶	275	87	8,424	33,455	6,949	12,798	24,797	91,839	2,227	7,139	38,979
Jersey City ⁷	2,301	804	109,748	637,611	82,817	162,582	423,210	1,387,119	64,101	124,348	1,224,988
Newark ⁸	4,585	1,628	250,656	1,607,349	160,606	322,474	855,305	3,073,039	154,905	245,586	2,292,865
Paterson-Clifton-Passaic ⁹	3,765	1,288	175,282	1,047,375	123,158	248,749	641,046	1,984,567	72,863	^F 158,550	1,464,579
Philadelphia ¹⁰	3,125	3,116	537,439	3,320,978	374,723	745,962	1,994,730	5,987,310	297,576	^F 537,192	4,826,261
Portion in New Jersey.....	1,115	391	75,322	500,458	54,549	109,977	311,409	884,703	50,533	^F 72,740	696,157
Portion in Pennsylvania.....	7,010	2,725	462,117	2,820,520	320,174	635,985	1,683,321	5,102,607	247,043	^F 464,452	4,130,104
Trenton ¹¹	424	175	37,220	240,631	26,433	53,196	150,035	455,541	19,562	^F 36,232	324,297
Wilmington ¹²	460	192	60,722	476,235	31,098	62,554	182,492	708,126	52,490	58,709	470,820
Portion in Delaware.....	338	144	46,444	376,095	21,401	44,126	126,450	487,920	29,741	46,025	312,301
Portion in New Jersey.....	59	23	10,895	82,860	7,245	13,435	45,775	190,013	(D)	10,481	142,933
Portion in Maryland.....	63	25	3,383	17,280	2,452	4,993	10,267	30,193	(D)	2,203	15,586
COUNTIES ¹											
Atlantic.....	275	87	8,424	33,455	6,949	12,798	24,797	91,839	2,227	7,139	38,979
Bergen.....	2,146	661	94,558	580,267	63,171	128,816	340,367	1,126,483	39,470	83,152	842,201
Burlington.....	297	115	18,607	115,591	13,765	27,029	79,042	211,698	10,089	15,100	174,860
Camden.....	647	203	44,636	309,816	32,198	66,165	187,740	489,940	22,300	47,216	425,760
Cape May.....	64	16	1,398	5,536	1,199	2,220	4,401	11,959	(D)	1,436	10,429
Cumberland.....	256	120	20,743	98,489	17,375	33,600	75,754	179,173	7,784	19,770	140,923
Essex.....	2,747	927	128,422	785,373	84,231	166,738	427,926	1,433,609	60,444	130,693	1,130,332
Gloucester.....	171	73	12,079	75,081	8,586	16,783	44,627	183,065	18,144	10,424	95,537
Hudson.....	2,301	804	109,748	637,611	82,817	162,582	423,210	1,387,119	64,101	124,348	1,224,988
Hunterdon.....	125	45	5,186	28,428	3,918	8,294	20,956	55,610	4,929	4,478	45,406
Mercer.....	424	175	37,220	240,631	26,433	53,196	150,035	455,541	19,562	36,232	324,297
Middlesex.....	792	387	76,763	488,599	53,629	107,362	292,822	1,063,689	74,333	66,206	723,470
Monmouth.....	532	172	20,918	117,136	13,779	26,931	58,018	205,355	18,187	14,705	106,082
Morris.....	461	138	29,979	204,834	16,219	33,038	87,054	366,415	23,029	26,544	276,685
Ocean.....	179	38	3,455	17,988	2,655	5,303	12,514	37,125	8,302	2,008	11,909
Passaic.....	1,619	627	80,724	467,108	59,987	119,933	300,679	858,084	33,393	75,398	622,378
Salem.....	59	23	10,895	82,860	7,245	13,435	45,775	190,013	(D)	10,481	142,933
Somerset.....	217	81	18,912	127,218	11,309	23,022	63,993	221,778	12,212	18,288	173,325
Sussex.....	88	29	3,189	15,870	2,527	5,111	10,886	32,112	1,335	2,563	17,369
Union.....	1,377	563	92,255	617,142	60,156	122,698	340,325	1,273,015	71,432	88,349	885,848
Warren.....	129	67	11,065	62,954	7,994	16,079	40,217	106,443	7,826	10,417	85,656

(D) Withheld to avoid disclosing figures for individual companies. ^FRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The New York, N.Y.-Northeastern New Jersey Standard Consolidated Area consists of the following Standard Metropolitan Statistical Areas: New York, N.Y.; Newark, N.J.; Jersey City, N.J.; Paterson-Clifton-Passaic, N.J., and of Middlesex and Somerset Counties, N.J.⁵The Allentown-Bethlehem-Easton, Pa.-N.J., Standard Metropolitan Statistical Area consists of Lehigh and Northampton Counties, Pa., and Warren County, N.J.⁶The Atlantic City Standard Metropolitan Statistical Area is coextensive with Atlantic County, N.J.⁷The Jersey City Standard Metropolitan Statistical Area is coextensive with Hudson County, N.J.⁸The Newark Standard Metropolitan Statistical Area consists of Essex, Morris, and Union Counties, N.J.⁹The Paterson-Clifton-Passaic Standard Metropolitan Statistical Area consists of Bergen and Passaic Counties, N.J.¹⁰The Philadelphia, Pa.-N.J., Standard Metropolitan Statistical Area consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N.J.¹¹The Trenton Standard Metropolitan Statistical Area is coextensive with Mercer County, N.J.¹²The Wilmington, Del.-N.J.-Md., Standard Metropolitan Statistical Area consists of New Castle County, Del., Salem County, N.J., and Cecil County, Md.

1963 CENSUS OF MANUFACTURES

Table 3.--GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	14,906	5,351	829,176	5,111,937	576,142	1,151,133	3,031,138	9,980,065	520,578	794,947	7,499,367
20	Food and kindred products.....	1,117	434	60,673	364,517	41,340	83,615	224,270	1,069,728	55,456	61,240	808,419
201	Meat products.....	122	51	5,014	30,350	3,935	8,161	21,606	86,303	1,681	5,268	53,263
202	Dairies.....	192	79	6,527	41,663	3,051	6,302	17,563	86,584	4,337	7,541	84,097
203	Canned and frozen foods.....	123	59	10,273	50,828	8,487	16,619	37,877	159,506	5,875	10,580	117,749
204	Grain mill products.....	45	17	1,195	7,753	729	1,615	3,544	20,569	1,590	874	13,971
207	Candy and related products...	70	24	3,952	20,975	3,154	6,274	13,726	50,812	2,183	3,504	33,489
22	Textile mill products.....	609	289	26,390	139,005	22,704	46,924	107,976	244,719	11,432	33,302	229,589
222	Weaving mills, synthetics....	40	22	1,292	6,938	1,107	2,212	5,632	14,152	(Z)	1,992	17,181
223	Weaving, finishing mills, wool.....	17	4	681	3,299	586	1,254	2,532	6,388	(D)	1,779	11,131
224	Narrow fabric mills.....	56	15	1,371	6,792	1,133	2,125	4,869	11,975	(Z)	1,186	7,131
225	Knitting mills.....	189	104	7,081	30,428	6,424	12,499	24,952	49,104	2,902	7,056	39,072
226	Textile finishing, except wool	138	83	8,997	54,844	7,808	17,301	44,179	91,541	4,372	11,699	82,548
228	Yarn and thread mills.....	29	10	660	3,093	589	1,202	2,478	4,912	(Z)	1,570	10,034
229	Miscellaneous textile goods..	110	36	4,957	27,197	3,919	7,982	18,515	52,811	2,397	5,365	44,527
23	Apparel and related products..	2,461	1,060	77,555	275,123	69,564	124,084	226,859	482,275	8,651	75,477	372,472
231	Men's and boys' suits and coats.....	78	55	6,366	24,309	5,846	10,617	21,051	36,945	(Z)	7,096	30,536
232	Men's and boys' furnishings..	100	72	6,568	22,680	5,908	10,703	18,255	53,735	(Z)	7,142	39,009
233	Women's and misses' outerwear	741	538	31,475	104,806	28,820	49,222	90,246	162,367	3,201	28,059	113,056
234	Women's and children's underwear.....	96	54	7,677	28,443	6,083	10,520	18,610	62,556	543	8,897	55,761
235	Millinery, hats and caps.....	37	14	886	3,305	808	1,332	2,872	4,912	(Z)	927	4,951
236	Children's outerwear.....	176	113	7,290	22,983	6,685	11,706	19,508	40,936	(Z)	8,374	36,969
238	Miscellaneous apparel.....	107	64	4,055	12,873	3,702	6,767	10,768	19,647	(Z)	3,677	17,662
239	Fabricated textiles, n.e.c....	1,121	149	13,207	55,597	11,688	23,363	45,448	101,094	3,660	11,272	74,258
24	Lumber and wood products.....	339	68	5,282	23,964	4,358	8,482	17,879	40,845	1,857	4,990	41,037
242	Sawmills and planing mills...	54	7	585	2,573	475	973	2,012	4,470	(Z)	465	2,869
243	Millwork and related products	134	27	2,125	10,493	1,653	3,226	7,413	20,836	701	1,702	13,669
244	Wooden containers.....	45	11	964	3,934	856	1,631	3,064	5,625	(Z)	1,251	5,908
249	Miscellaneous wood products..	81	22	1,457	6,552	1,237	2,419	4,955	12,182	517	1,521	18,249
25	Furniture and fixtures.....	389	97	8,889	44,169	7,247	14,419	31,732	75,832	3,089	8,726	64,652
251	Household furniture.....	238	66	6,287	29,093	5,192	10,146	21,125	54,013	1,191	5,989	42,764
254	Partitions and fixtures.....	80	18	1,113	6,423	905	4,778	10,120	(Z)	935	6,858	11,888
259	Furniture and fixtures, n.e.c.	52	8	761	4,334	580	1,184	2,790	7,182	(Z)	753	6,715
26	Paper and allied products.....	379	224	31,814	190,909	24,208	51,231	129,270	368,002	29,221	28,344	273,935
262	Paper mills, except building...	13	12	2,959	19,047	2,243	4,904	14,470	44,498	4,213	2,974	34,718
263	Paperboard mills.....	24	20	2,799	19,728	2,343	5,937	15,439	38,343	4,203	2,899	41,912
264	Paper and paperboard products	148	64	9,738	58,619	6,729	13,797	34,516	120,396	8,550	7,715	80,293
265	Paperboard containers and boxes.....	186	122	15,478	88,753	12,181	25,176	60,974	154,642	11,901	13,544	105,631
27	Printing and publishing.....	1,366	253	33,062	196,431	20,229	39,141	117,572	356,793	15,537	30,795	283,913
271	Newspapers.....	51	58	8,943	52,944	4,275	8,414	28,171	97,396	4,279	7,919	74,084
272	Periodicals.....	24	10	760	5,413	132	231	582	16,817	(Z)	582	8,412
273	Books.....	77	22	5,341	29,720	1,573	2,808	7,761	73,418	2,083	4,208	50,108
274	Miscellaneous publishing.....	38	6	627	3,272	180	340	897	6,546	(Z)	526	6,066
275	Commercial printing.....	757	104	12,230	76,264	9,913	19,444	59,185	118,010	7,425	13,068	111,068
276	Manifold business forms.....	21	10	1,104	7,055	725	1,395	4,097	9,074	(Z)	924	7,103
277	Greeting card manufacturing..	11	4	261	1,485	198	373	830	2,565	(Z)	199	1,779
278	Bookbinding and related work.	67	23	2,854	13,753	2,494	4,837	11,222	23,636	897	2,323	16,398
279	Printing trades services.....	96	16	942	6,525	739	1,299	4,847	9,331	(Z)	1,046	8,895
28	Chemicals and allied products..	1,045	427	86,050	610,963	52,385	106,730	322,988	2,119,670	140,652	79,362	1,457,830
281	Basic chemicals.....	229	119	30,886	238,893	19,941	40,364	138,082	667,227	79,129	28,287	465,682
283	Drugs.....	123	52	16,567	119,852	8,797	18,302	50,378	537,181	25,449	14,907	329,947
284	Cleaning and toilet goods.....	222	74	16,610	102,144	10,236	20,478	56,639	471,127	10,918	14,475	365,809
285	Paints and allied products...	172	74	6,968	47,017	4,040	8,242	23,255	141,138	3,909	7,197	103,343
287	Agricultural chemicals.....	36	18	1,418	7,510	1,011	2,079	4,937	18,742	2,041	1,688	17,080
289	Miscellaneous chemical products.....	172	51	6,680	44,578	4,303	8,803	25,320	106,139	4,672	5,500	85,753
29	Petroleum and coal products....	90	38	8,466	66,237	6,092	12,240	44,049	235,198	11,399	11,377	108,838
291	Petroleum refining.....	14	9	5,830	48,444	4,153	8,110	31,898	176,716	8,308	8,191	68,918
295	Paving and roofing materials.	50	18	1,932	12,920	1,478	3,216	9,306	31,935	2,645	1,877	21,686
299	Petroleum and coal products, n.e.c.....	26	11	704	4,873	461	914	2,845	26,547	(Z)	1,309	18,234
30	Rubber and plastics products, n.e.c.....	486	234	28,283	154,167	22,274	45,121	106,353	293,013	24,398	22,537	191,748
306	Rubber products, n.e.c.....	105	59	12,191	69,324	9,249	18,510	48,390	127,452	5,741	12,172	103,940
31	Leather and leather products...	194	107	11,723	49,123	10,145	19,318	38,120	77,327	1,118	12,087	67,248
311	Leather tanning and finishing	52	26	2,247	12,718	1,934	4,012	9,852	21,627	510	2,854	21,341
314	Footwear, except rubber.....	21	17	2,064	8,635	1,911	3,173	6,528	12,173	(Z)	1,710	8,696
316	Luggage.....	30	19	1,963	7,685	1,715	3,032	6,021	11,760	(Z)	2,091	11,524
317	Purses and small leather goods	74	41	5,054	18,201	4,544	8,465	14,498	28,705	(Z)	5,091	23,796
32	Stone, clay and glass products..	571	222	34,684	198,636	28,023	56,790	147,888	388,600	31,776	32,550	304,222
323	Products of purchased glass..	100	35	3,061	14,197	2,221	5,193	10,597	25,881	712	2,028	13,695
325	Structural clay products.....	21	18	1,536	8,115	1,295	2,690	6,197	13,432	(Z)	1,607	12,464
326	Pottery and related products...	50	30	4,299	23,073	3,487	6,731	17,309	39,355	959	4,510	33,229
327	Concrete and plaster products.	239	74	5,401	33,757	3,760	8,425	21,626	76,299	6,081	5,253	58,701
329	Nonmetallic mineral products..	121	51	8,980	57,969	6,848	14,327	41,514	117,884	9,625	8,580	90,177

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufac-ture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(1,000)	
33	Primary metal industries.....	367	191	36,059	231,306	27,840	57,371	165,459	439,473	27,605	37,206	370,542
331	Steel rolling and finishing..	40	25	5,746	38,704	4,218	8,270	26,284	79,082	3,442	6,078	64,297
332	Iron and steel foundries....	44	32	5,130	29,625	4,283	8,497	23,423	49,062	4,394	6,330	48,317
334	Secondary nonferrous metals..	39	17	1,653	10,097	1,137	2,345	5,847	38,654	1,534	1,291	11,316
335	Nonferrous rolling and drawing.....	74	55	13,738	90,213	10,318	22,039	63,265	183,613	10,736	14,614	166,235
339	Primary metal industries, n.e.c.....	64	23	1,921	11,892	1,388	2,722	7,482	24,720	1,184	1,517	15,645
34	Fabricated metal products.....	1,535	491	57,943	355,683	45,353	93,936	250,825	681,146	32,087	53,279	508,042
341	Metal cans.....	18	15	5,409	38,006	4,715	10,075	31,463	89,039	5,935	5,637	72,370
342	Cutlery, hand tools, hardware	106	42	8,305	54,031	6,813	14,727	41,336	120,863	6,640	8,400	74,862
343	Plumbing and heating, except electric.....	62	26	3,682	21,465	2,722	5,353	13,950	44,717	1,590	3,260	29,645
344	Structural metal products.....	550	150	12,606	75,370	9,561	19,468	51,084	128,536	3,399	11,831	115,062
345	Screw machine products.....	146	47	4,983	32,566	3,766	8,658	22,529	62,438	3,556	38,097	38,097
346	Metal stampings.....	156	59	6,168	35,887	5,039	9,968	25,136	59,785	3,065	5,753	51,046
347	Metal services, n.e.c.....	241	48	3,282	16,950	2,655	5,426	12,502	27,211	1,515	2,848	18,900
348	Fabricated wire products, n.e.c.....	88	24	2,938	16,734	2,398	4,639	12,007	31,197	766	2,662	25,822
349	Fabricated metal products, n.e.c.....	168	80	10,570	64,674	7,684	16,504	40,818	117,360	5,621	8,686	82,238
35	Machinery, except electrical...	1,824	392	55,979	374,147	39,842	83,348	242,872	671,721	27,157	57,517	519,371
353	Construction and like equipment.....	71	24	6,132	44,290	3,824	8,036	25,653	126,789	2,113	7,485	103,625
354	Metalworking machinery.....	501	95	8,101	54,975	6,403	13,793	39,652	83,745	4,317	18,182	66,387
355	Special industry machinery.....	262	93	11,123	77,355	7,626	16,237	47,472	126,081	4,200	10,336	94,900
356	General industrial machinery.....	231	65	14,898	102,081	10,785	22,171	69,447	168,157	7,435	14,278	122,260
357	Office machines, n.e.c.....	35	18	4,632	29,025	2,999	6,305	16,272	54,719	3,463	3,830	30,540
358	Service industry machines.....	110	40	5,414	33,463	3,578	7,128	19,126	58,748	2,356	5,720	41,068
359	Miscellaneous machinery.....	593	50	5,261	30,887	4,277	8,954	23,646	50,861	3,105	5,429	39,655
36	Electrical machinery.....	865	389	128,382	851,963	89,815	177,494	507,400	1,321,585	45,769	(³)	(³)
361	Electric distribution products.....	119	47	10,488	62,387	7,696	15,090	39,143	113,222	3,671	12,568	101,568
362	Electric industrial apparatus	75	35	5,667	33,133	3,485	7,144	17,423	50,505	1,826	7,000	51,977
363	Household appliances.....	30	8	4,546	29,912	3,393	6,827	20,858	48,188	1,278	5,959	35,695
364	Lighting and wiring devices..	161	70	14,266	77,669	11,219	22,296	52,665	157,033	5,452	12,391	107,033
365	Radio and TV receiving equipment.....	55	27	7,399	36,092	5,834	11,177	24,517	83,007	1,763	6,732	50,186
366	Communication equipment.....	114	63	57,819	452,713	37,237	74,467	255,389	611,930	20,513	(³)	(³)
367	Electronic components.....	248	116	24,387	138,348	17,860	34,320	81,142	213,176	10,291	24,093	168,096
369	Electrical products, n.e.c.....	63	23	3,810	21,709	3,091	6,173	16,263	44,524	975	3,410	29,345
37	Transportation equipment.....	258	87	40,087	282,656	28,750	60,436	191,719	625,400	26,114	50,959	575,378
371	Motor vehicles and equipment.	80	26	13,065	103,089	10,371	23,940	77,007	368,290	16,488	14,701	237,314
372	Aircraft and parts.....	44	24	16,834	111,066	9,294	18,971	56,502	167,664	7,011	22,494	233,493
373	Ship and boat building.....	121	33	9,478	64,451	8,511	16,481	55,315	84,043	2,332	13,168	98,248
38	Instruments and related products.....	272	91	17,598	118,354	11,286	22,638	60,327	230,532	14,637	(³)	(³)
381	Scientific instruments.....	50	22	2,266	13,776	1,740	3,545	9,000	22,716	1,276	(³)	(³)
382	Mechanical measuring devices.	59	24	3,341	16,409	2,297	4,484	10,596	34,208	819	2,250	19,534
384	Medical instruments and supplies.....	67	17	7,093	55,067	3,706	7,655	21,053	94,614	6,241	6,328	71,824
385	Ophthalmic goods.....	29	6	781	3,702	636	1,281	2,436	7,692	(²)	815	7,687
386	Photographic equipment.....	44	16	3,668	25,071	2,623	5,081	14,672	66,063	5,309	3,213	31,009
39	Miscellaneous manufacturing, including ordnance.....	734	253	28,760	132,894	23,363	45,786	93,525	238,922	11,954	25,768	181,114
391	Jewelry and silverware.....	121	42	3,842	20,542	2,906	5,965	13,461	31,441	520	4,015	29,136
393	Musical instruments and parts	18	6	401	1,733	327	644	1,305	2,857	(²)	210	3,433
394	Toys and sporting goods.....	122	59	9,512	38,601	3,199	15,935	29,343	74,335	6,221	6,635	43,738
395	Pens, pencils and office supplies.....	72	26	3,433	16,777	2,410	4,934	10,153	27,991	993	3,400	24,321
396	Costume jewelry and notions..	75	26	2,732	11,753	2,333	4,568	8,634	22,443	1,001	2,936	21,432
398	Miscellaneous manufactures ⁴ ..	326	94	8,839	43,488	7,188	13,740	30,629	79,885	3,144	8,572	59,054
399												
190												
--	Administrative and auxiliary ⁵ ..	-	-	50,298	446,701	-	-	-	-	-	33,031	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All Industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Data for 1958 for Industries 3662 and 3811 not directly comparable with data for 1963. See 1963 Census of Manufactures preliminary reports for Industries 3662 and 3811 for more detailed explanation. Totals for Group 36, Electrical Machinery, and Group 38, Instruments and Related Products, amounted to 134,581 employees and \$1,125,850 thousand dollars value added in 1958.

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new*	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALLENTOWN-BETHLEHEM-EASTON, PA.-N. J., SMSA ("All manufacturing" totals for the Allentown-Bethlehem-Easton Standard Metropolitan Statistical Area (which includes Warren County in New Jersey) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Pennsylvania.)												
JERSEY CITY SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	2,301	804	109,748	637,611	82,817	162,582	423,210	1,387,119	64,101	124,348	1,224,988
20	Food and kindred products.....	151	65	10,585	66,380	7,819	16,058	44,524	288,311	13,258	11,055	228,053
201	Meat products.....	25	16	2,069	13,382	1,627	3,446	9,825	21,550	539	2,176	23,173
205	Bakery products.....	38	13	1,130	6,772	711	1,441	3,969	12,655	2,214	1,051	10,823
208	Beverages.....	16	6	503	3,204	247	508	1,272	24,056	(Z)	527	17,667
209	Miscellaneous foods and kindred products.....	38	22	5,254	34,708	3,875	7,953	23,564	191,442	9,141	5,455	148,075
22	Textile mill products.....	146	60	4,177	20,770	3,717	7,420	16,709	33,745	1,664	5,144	32,430
225	Knitting mills.....	73	35	2,386	10,586	2,177	4,202	8,694	15,165	802	2,737	14,415
226	Textile finishing, except wool.....	26	16	1,035	6,196	910	2,005	5,075	11,434	754	1,027	8,370
228	Yarn and thread mills.....	8	5	356	1,932	302	610	1,461	3,227	(Z)	294	2,530
23	Apparel and related products...	950	248	18,243	72,340	15,711	29,484	56,912	140,812	2,960	18,921	125,226
232	Men's and boys' furnishings...	11	8	401	1,302	375	662	1,084	1,822	(Z)	392	1,758
233	Women's and misses' outerwear	174	132	7,607	28,333	6,716	12,217	22,848	51,606	1,207	6,818	38,480
234	Women's and children's underwear.....	32	15	2,535	11,265	1,695	3,009	6,222	30,798	(Z)	3,113	26,635
236	Children's outerwear.....	40	26	1,710	5,377	1,486	2,580	4,200	11,184	(Z)	1,854	10,610
238	Miscellaneous apparel.....	16	7	532	1,547	484	821	1,325	2,291	(Z)	725	3,297
239	Fabricated textiles, n.e.c.....	662	56	5,247	23,805	4,757	9,864	20,622	41,884	1,386	5,639	42,442
25	Furniture and fixtures.....	51	20	1,781	8,245	1,475	2,985	5,733	15,529	(Z)	1,781	12,092
251	Household furniture.....	35	16	1,374	6,008	1,161	2,348	4,138	11,117	(Z)	1,456	9,599
26	Paper and allied products.....	65	39	5,012	29,288	3,992	8,126	20,480	50,638	1,766	5,635	50,793
265	Paperboard containers and boxes.....	39	29	4,143	24,575	3,258	6,638	16,736	38,830	1,489	4,701	36,533
27	Printing and publishing.....	98	25	3,466	24,501	2,584	4,696	18,262	34,655	1,037	4,569	41,205
271	Newspapers.....	9	4	712	4,643	294	530	2,139	7,660	(Z)	698	6,194
275	Commercial printing.....	64	12	2,279	17,132	1,928	3,497	14,208	23,222	803	3,631	32,615
28	Chemicals and allied products...	137	59	7,320	49,070	4,733	9,532	28,252	184,561	7,469	8,800	149,123
283	Drugs.....	22	8	391	2,213	257	662	1,100	7,201	(Z)	1,299	13,947
284	Cleaning and toilet goods....	32	14	4,213	29,245	2,700	5,282	17,034	125,379	3,584	4,336	95,427
289	Miscellaneous chemical products.....	23	8	509	3,181	326	654	1,692	7,690	(Z)	525	8,574
30	Rubber and plastics products, n.e.c.....	37	17	1,598	7,592	1,356	2,752	5,987	16,673	1,259	698	5,972
307	Plastics products, n.e.c.....	33	15	1,472	7,070	1,263	2,581	5,676	15,561	1,203	529	4,410
31	Leather and leather products...	32	22	2,555	10,027	2,291	4,183	7,955	16,713	(Z)	2,318	11,220
316	Luggage.....	6	5	453	1,400	406	705	1,167	2,243	(Z)	339	1,306
317	Purses and small leather goods.....	18	13	1,710	6,625	1,522	2,838	5,291	11,943	(Z)	1,433	7,466
32	Stone, clay and glass products.	34	16	1,883	10,850	1,543	3,139	8,022	23,324	(D)	1,288	12,111
33	Primary metal industries.....	41	20	4,330	28,467	3,170	6,400	19,014	50,693	3,196	4,710	56,129
335	Nonferrous rolling and drawing.....	7	7	2,371	16,327	1,742	3,554	11,006	32,806	2,086	2,148	32,598
34	Fabricated metal products.....	146	47	5,371	33,792	4,244	8,657	24,954	57,123	2,981	8,443	78,250
344	Structural metal products.....	61	22	1,352	7,626	1,038	2,047	5,060	15,051	(Z)	1,180	11,218
346	Metal stampings.....	14	3	745	4,443	546	1,121	3,095	4,581	(Z)	1,213	9,836
349	Fabricated metal products, n.e.c.....	19	9	810	5,165	579	1,182	3,275	7,584	580	2,197	18,830
35	Machinery, except electrical...	131	35	9,018	65,704	6,228	13,045	42,640	151,190	3,047	10,033	122,085
354	Metalworking machinery.....	27	4	317	2,215	266	599	1,731	3,360	(Z)	367	3,273
356	General industrial machinery.	24	9	3,902	27,943	2,841	5,960	19,320	43,415	1,288	3,797	35,017
358	Service industry machines....	12	6	859	5,747	575	1,138	3,634	11,258	(Z)	753	6,619
36	Electrical machinery.....	74	39	19,177	121,261	14,385	27,682	77,642	185,879	11,714	25,408	194,275
364	Lighting and wiring devices...	24	13	1,954	10,426	1,527	3,184	7,346	20,727	647	2,025	18,295
37	Transportation equipment:											
373	Ship and boat building.....	14	10	2,504	16,650	2,099	3,713	13,177	26,492	(Z)	2,908	23,674
39	Miscellaneous manufacturing....	116	57	6,696	30,828	5,201	9,970	19,896	60,492	3,276	5,254	37,422
391	Jewelry and silverware.....	14	6	906	5,097	591	1,429	2,979	6,986	(Z)	790	5,493
394	Toys and sporting goods.....	17	12	1,710	6,592	1,492	2,696	4,202	17,139	(D)	525	3,038
395	Pens, pencils and office supplies.....	13	7	1,366	6,099	915	1,856	3,376	10,579	(Z)	1,142	8,211
398	Miscellaneous manufactures ⁴ ...	52	22	2,204	11,045	1,775	3,153	7,943	21,841	(Z)	2,150	17,384
399												
190												
--	Administrative and auxiliary ⁵ ..	-	-	3,125	23,378	-	-	-	-	-	3,670	-

See footnotes at end of table.

NEW JERSEY

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEWARK SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	4,585	1,628	250,656	1,607,349	160,606	322,474	855,305	3,073,039	154,905	245,586	2,292,865
20	Food and kindred products.....	285	112	21,562	141,463	13,572	27,225	84,567	337,428	18,458	23,043	266,686
201	Meat products.....	34	17	1,870	12,080	1,472	3,215	8,621	50,261	(Z)	1,934	19,878
202	Dairies.....	46	18	2,042	13,893	984	2,035	5,731	24,315	1,291	2,461	24,707
203	Canned and frozen foods.....	20	9	709	3,664	568	1,079	2,550	6,078	(Z)	610	4,305
205	Bakery products.....	71	29	6,278	36,838	3,720	7,627	20,544	72,863	3,488	5,941	50,742
207	Candy and related products...	19	9	984	4,466	795	1,705	3,434	9,986	(Z)	1,188	7,877
208	Beverages.....	40	17	7,295	55,003	4,783	8,825	35,674	142,364	7,573	8,605	124,870
209	Miscellaneous foods and kindred products.....	45	11	2,248	14,733	1,162	2,569	7,526	29,665	4,911	2,146	32,856
22	Textile mill products.....	62	32	3,003	16,311	2,398	5,044	11,472	33,784	1,730	3,830	29,763
229	Miscellaneous textile goods..	25	14	2,030	12,265	1,555	3,332	8,253	26,086	1,230	2,186	19,661
23	Apparel and related products...	389	216	15,751	54,269	14,082	24,434	44,217	102,987	1,664	16,171	82,808
231	Men's and boys' suits and coats.....	19	11	920	3,610	815	1,446	2,982	5,093	(Z)	910	3,989
232	Men's and boys' furnishings..	29	16	1,840	7,255	1,619	3,091	5,508	28,982	(Z)	2,074	22,255
233	Women's and misses' outerwear	143	103	6,014	19,153	5,546	9,106	17,166	26,411	576	5,689	20,771
234	Women's and children's underwear.....	20	10	1,264	5,041	1,111	1,810	3,487	6,796	(Z)	2,149	9,286
236	Children's outerwear.....	40	21	1,390	4,273	1,265	2,170	3,509	6,897	(Z)	2,150	8,958
238	Miscellaneous apparel.....	27	17	1,323	4,421	1,192	2,182	3,498	7,750	(Z)	1,130	5,384
239	Fabricated textiles, n.e.c....	96	31	2,659	9,561	2,228	4,102	6,830	19,164	707	1,780	10,550
25	Furniture and fixtures.....	121	30	3,282	16,647	2,544	5,003	11,652	30,181	692	3,148	24,307
251	Household furniture.....	73	20	2,628	12,994	2,064	3,982	9,301	25,365	538	2,408	19,066
26	Paper and allied products.....	108	59	6,775	41,552	5,339	11,666	28,937	76,720	6,227	6,543	68,425
263	Paperboard mills.....	10	8	1,049	7,617	907	2,441	6,344	18,692	2,515	1,055	18,015
264	Paper and paperboard products	49	20	2,447	13,926	1,913	3,916	9,295	25,962	2,403	2,063	19,562
265	Paperboard containers and boxes.....	47	30	3,009	17,893	2,311	4,877	11,926	27,122	1,177	2,771	24,377
27	Printing and publishing.....	452	73	10,192	61,239	6,672	12,986	38,266	115,245	3,451	9,527	88,606
271	Newspapers.....	47	10	3,292	20,886	1,577	3,269	11,873	42,384	577	3,047	30,399
273	Books.....	25	6	1,133	7,056	756	1,389	3,724	14,745	(Z)	911	9,924
274	Miscellaneous publishing.....	12	3	321	1,997	61	99	345	3,739	(Z)	341	4,158
275	Commercial printing.....	271	35	3,339	19,194	2,610	5,116	13,885	32,765	1,608	3,001	27,096
278	Bookbinding and related work.	28	8	1,316	7,155	1,115	2,209	5,618	12,887	(Z)	1,481	10,737
279	Printing trades services.....	27	5	379	2,456	355	529	1,970	3,433	(Z)	381	3,322
28	Chemicals and allied products..	369	142	28,477	201,922	15,615	32,073	94,517	782,999	49,486	26,444	533,348
281	Basic chemicals.....	77	37	5,458	40,848	3,492	7,175	23,503	127,143	23,561	5,357	83,599
282	Fibers, plastics, rubbers....	32	12	1,565	10,656	1,083	2,226	6,648	30,817	2,045	2,020	24,789
284	Cleaning and toilet goods....	78	21	4,277	26,161	1,957	4,156	10,452	158,385	3,451	9,232	222,572
285	Paints and allied products...	73	32	3,271	22,125	1,917	3,657	10,506	63,259	1,394	4,056	116,790
289	Miscellaneous chemical products.....	59	17	2,771	19,017	1,666	3,423	10,193	44,129	1,933	2,031	30,067
30	Rubber and plastics products, n.e.c....	177	73	7,214	37,143	5,752	11,489	24,669	70,801	8,670	6,232	55,048
307	Plastics products, n.e.c....	147	61	5,638	28,589	4,643	9,294	19,399	54,881	7,880	4,296	37,514
31	Leather and leather products...	83	38	3,899	16,627	3,470	6,601	13,557	25,475	525	4,602	28,211
311	Leather tanning and finishing	42	18	1,500	8,456	1,327	2,798	6,817	15,110	(Z)	1,787	15,892
316	Luggage.....	12	6	362	1,469	318	566	1,232	1,504	(Z)	617	2,816
317	Purses and small leather goods.....	25	13	1,989	6,543	1,786	3,153	5,395	8,613	(Z)	2,060	8,734
32	Stone, clay and glass products.	105	38	2,857	17,220	2,109	4,635	11,525	36,472	3,561	2,832	32,503
323	Products of purchased glass..	17	5	568	2,544	486	982	1,871	4,295	(Z)	543	4,294
327	Concrete and plaster products	37	16	1,274	8,702	903	2,215	6,098	20,150	1,943	1,367	18,975
329	Nonmetallic mineral products.	35	16	922	5,590	644	1,288	3,267	11,423	1,499	724	7,920
33	Primary metal industries.....	144	67	8,539	54,337	6,497	13,362	37,250	139,889	6,857	9,171	91,811
331	Steel rolling and finishing...	16	7	683	4,232	499	934	2,455	8,003	600	773	8,138
332	Iron and steel foundries....	12	7	750	4,282	622	1,268	3,324	6,058	(Z)	995	6,960
334	Secondary nonferrous metals..	19	8	877	5,364	549	1,128	2,785	49,882	1,310	618	4,223
335	Nonferrous rolling and drawing.....	28	18	3,671	25,015	2,761	5,831	17,506	48,207	3,976	3,865	48,468
336	Nonferrous foundries.....	39	18	1,735	10,383	1,442	3,059	7,868	16,234	554	2,142	16,790
339	Primary metal industries, n.e.c....	29	8	801	4,801	604	1,095	3,078	11,386	(Z)	778	7,232
34	Fabricated metal products.....	644	211	22,566	138,419	17,304	35,746	93,298	249,793	11,067	19,480	179,895
342	Cutlery, hand tools, hardware	62	22	2,556	13,601	2,076	4,338	9,782	25,149	685	2,644	21,650
343	Plumbing and heating, except electric.....	19	9	1,021	6,272	634	1,289	3,355	12,505	812	1,138	9,585
344	Structural metal products....	183	52	3,761	23,723	2,772	5,686	15,722	40,261	1,168	3,757	36,559
345	Screw machine products.....	74	27	2,992	20,168	2,245	5,276	14,128	41,221	2,536	2,402	22,503
346	Metal stampings.....	80	29	2,326	13,904	2,044	4,041	10,026	23,447	872	1,969	17,356
348	Fabricated wire products, n.e.c....	35	10	1,565	9,001	1,291	2,428	6,492	15,759	(Z)	1,170	10,464
349	Fabricated metal products, n.e.c....	74	41	6,101	36,814	4,195	8,508	22,530	63,709	2,556	3,951	38,609

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958--Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEWARK SMSA--Continued												
35	Machinery, except electrical...	716	169	21,604	144,933	15,394	32,499	94,503	257,963	9,564	24,140	201,459
353	Construction and like equipment.....	21	6	822	5,400	507	1,180	3,247	20,858	(Z)	1,473	20,712
354	Metalworking machinery.....	252	60	4,899	34,409	3,834	8,334	24,116	50,613	2,707	5,881	47,529
355	Special industry machinery...	87	33	4,729	32,690	2,903	6,084	18,317	56,654	1,515	4,806	48,117
356	General industrial machinery...	87	31	4,973	35,009	3,889	8,238	26,126	65,444	3,180	3,886	31,799
357	Office machines, n.e.c.....	14	9	2,147	12,635	1,304	2,496	6,534	26,345	(Z)	2,511	17,978
358	Service industry machines....	42	16	1,937	11,944	1,268	2,521	6,627	18,385	791	2,792	15,455
359	Miscellaneous machinery.....	214	16	2,088	12,811	1,682	3,633	9,511	19,576	852	2,655	19,016
36	Electrical machinery.....	345	157	37,623	233,584	27,048	52,709	139,939	349,978	12,905	36,446	283,781
361	Electric distribution products.....	51	20	6,439	41,195	4,550	8,740	25,262	74,351	2,810	7,746	71,535
362	Electric industrial apparatus	31	13	1,221	6,549	937	1,937	4,300	11,680	567	1,060	8,669
364	Lighting and wiring devices..	51	20	7,484	44,038	5,695	11,299	29,339	88,298	2,716	7,565	64,802
365	Radio and TV receiving equipment.....	27	13	1,988	9,175	1,572	2,928	6,210	19,413	505	1,613	17,934
367	Electronic components.....	103	54	7,994	41,500	6,013	11,491	25,546	60,961	3,050	8,409	53,636
369	Electrical products, n.e.c....	24	9	1,544	8,109	1,208	2,259	5,719	16,573	(Z)	1,739	13,568
37	Transportation equipment.....	50	24	11,353	87,292	7,292	16,175	52,059	223,589	9,692	14,925	163,530
38	Instruments and related products.....	110	40	4,722	26,864	3,337	6,563	15,837	52,942	2,017	4,649	38,099
381	Scientific instruments.....	17	7	812	5,523	580	1,221	3,216	9,190	(Z)	1,770	11,020
382	Mechanical measuring devices.	26	13	2,035	11,494	1,426	2,721	7,143	19,991	544	1,300	11,484
39	Miscellaneous manufacturing, including ordnance ⁴	314	114	11,448	56,333	9,313	18,766	40,772	95,013	4,129	12,511	77,396
391	Jewelry and silverware.....	93	33	2,741	14,695	2,148	4,194	9,865	22,770	(Z)	2,955	22,416
394	Toys and sporting goods.....	37	21	3,958	18,035	3,438	7,206	15,172	30,301	1,834	3,373	23,586
396	Costume jewelry and notions..	31	9	1,481	6,776	1,234	2,467	5,025	10,363	834	1,079	8,441
398												
399	Miscellaneous manufactures ⁴ ..	112	39	2,547	13,363	1,959	3,820	8,505	24,613	970	2,532	16,478
190												
--	Administrative and auxiliary ⁵ ..	-	-	25,758	232,071	-	-	-	-	-	18,935	-
NEW YORK, N.Y.-NORTHEASTERN NEW JERSEY SCA												
("All manufacturing" totals for the New York, N.Y.-Northeastern New Jersey Standard Consolidated Area (which includes the Jersey City, Newark, and Paterson-Clifton-Passaic Standard Metropolitan Statistical Areas and Middlesex and Somerset Counties in New Jersey) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of New York.)												
PATERSON-CLIFTON-PASSAIC SMSA												
(See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	3,765	1,288	175,282	1,047,375	123,158	248,749	641,046	1,984,567	72,863	1,158,550	1,464,579
20	Food and kindred products.....	205	70	8,982	53,186	6,270	12,980	32,206	144,707	5,702	7,185	91,700
202	Dairies.....	45	17	1,226	7,433	692	1,317	3,774	18,946	1,233	1,207	19,628
205	Bakery products.....	48	19	3,925	21,123	3,141	6,672	15,553	65,947	1,303	3,000	32,353
207	Candy and related products...	8	2	250	1,063	222	434	872	1,836	(Z)	263	965
208	Beverages.....	38	9	768	4,815	321	691	1,757	13,848	580	687	8,787
22	Textile mill products.....	306	134	12,361	70,186	10,615	22,379	54,725	121,288	5,056	16,723	118,232
221	Weaving mills, cotton.....	12	4	297	1,066	264	526	910	2,287	(Z)	591	3,984
222	Weaving mills, synthetics....	36	19	1,151	6,182	990	1,985	5,114	12,758	(Z)	1,308	12,160
223	Weaving, finishing mills, wool.....	11	4	657	3,210	564	1,210	2,452	6,112	(D)	1,734	10,825
224	Narrow fabric mills.....	44	12	1,070	5,415	880	1,612	3,810	8,599	(Z)	1,029	6,548
225	Knitting mills.....	51	25	1,438	6,658	1,251	2,509	4,971	11,402	810	1,599	8,757
226	Textile finishing, except wool.....	94	54	6,096	39,131	5,255	11,648	31,068	64,760	2,267	8,275	60,837
229	Miscellaneous textile goods..	39	12	1,139	5,942	942	1,897	4,292	10,191	(Z)	1,092	7,080
23	Apparel and related products...	582	249	16,465	60,384	15,086	27,299	51,361	98,638	1,959	14,911	67,168
231	Men's and boys' suits and coats.....	18	14	1,323	5,209	1,273	2,348	4,816	6,824	(Z)	1,475	5,245
232	Men's and boys' furnishings..	19	13	1,076	3,518	1,001	1,766	3,082	4,648	(Z)	1,372	3,302
233	Women's and misses' outerwear	176	125	6,540	22,538	6,060	10,295	19,611	32,032	537	5,883	20,470
234	Women's and children's underwear.....	21	13	1,503	5,187	1,302	2,389	3,793	11,670	(Z)	1,191	8,592
238	Miscellaneous apparel.....	32	19	1,029	3,191	948	1,672	2,673	4,536	(Z)	783	4,766
239	Fabricated textiles, n.e.c....	276	45	3,617	15,768	3,237	6,570	13,048	28,960	1,087	2,484	16,225
25	Furniture and fixtures.....	121	34	2,478	12,251	2,113	4,113	9,123	19,653	748	2,161	15,329
251	Household furniture.....	78	23	1,613	7,135	1,396	2,673	5,570	12,503	(Z)	1,592	10,297
259	Furniture and fixtures, n.e.c.	12	3	308	1,921	247	500	1,220	2,466	(Z)	265	2,658
26	Paper and allied products.....	118	65	8,615	52,722	6,685	14,366	35,622	93,887	5,680	6,960	67,013
263	Paperboard mills.....	7	6	930	6,619	715	1,864	4,656	11,158	1,041	1,030	13,628
264	Paper and paperboard products	50	20	3,152	18,557	2,337	4,850	12,144	34,983	2,227	2,242	23,442
265	Paperboard containers and boxes.....	55	34	3,831	22,984	3,072	6,464	15,505	40,864	2,015	3,180	25,521

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PATERSON-CLIFTON-PASSAIC SMSA--Continued												
27	Printing and publishing.....	375	74	10,554	59,219	5,277	10,179	28,001	115,707.	4,343	9,006	89,892
271	Newspapers.....	45	6	1,114	5,609	534	979	2,922	9,871	(Z)	1,334	13,062
272	Periodicals.....	22	4	329	2,926	22	37	63	7,630	(Z)	219	3,665
273	Books.....	24	8	3,570	19,116	506	839	2,404	50,075	1,481	2,809	33,761
274	Miscellaneous publishing.....	16	3	271	1,071	104	215	480	2,218	(Z)	150	1,510
275	Commercial printing.....	199	28	3,026	17,540	2,417	4,803	13,210	27,129	1,590	2,796	24,562
276	Manifold business forms.....	12	7	879	5,648	551	1,036	3,197	7,535	(Z)	674	5,425
278	Bookbinding and related work.	19	9	942	4,290	851	1,683	3,639	7,055	(Z)	513	3,704
279	Printing trades services.....	36	8	384	2,830	259	521	1,955	3,823	(Z)	511	4,199
28	Chemicals and allied products..	268	102	13,105	86,496	8,824	18,289	50,329	301,969	10,095	10,852	186,640
281	Basic chemicals.....	51	23	3,313	23,154	2,413	5,161	15,582	65,754	4,207	2,711	33,230
282	Fibers, plastics, rubbers....	17	5	691	4,840	480	1,010	1,925	19,365	797	166	2,165
283	Drugs.....	28	12	879	5,180	567	1,106	2,750	13,503	568	734	8,824
284	Cleaning and toilet goods....	74	27	4,896	30,708	3,190	6,628	17,357	149,904	2,330	4,236	97,166
285	Paints and allied products...	43	18	877	5,998	538	1,058	2,942	14,681	(Z)	736	8,011
289	Miscellaneous chemical products.....	53	17	2,431	16,512	1,625	3,308	9,724	38,471	1,913	2,183	36,451
30	Rubber and plastics products, n.e.c.....	133	63	8,698	48,493	6,702	13,670	33,059	89,972	6,313	7,061	58,593
306	Rubber products, n.e.c.....	32	17	4,835	29,123	3,569	7,135	19,869	51,216	2,005	5,237	44,179
307	Plastics products, n.e.c.....	101	46	3,863	19,370	3,133	6,535	13,181	38,756	4,308	1,824	14,414
31	Leather and leather products...	37	20	2,073	8,823	1,895	3,323	6,554	13,779	(Z)	2,002	10,976
32	Stone, clay and glass products.	108	36	3,185	19,108	2,331	4,712	12,392	37,328	1,903	2,734	23,435
327	Concrete and plaster products	46	18	1,202	7,700	772	1,661	4,390	18,640	1,214	1,080	10,676
329	Nonmetallic mineral products.	25	7	986	6,196	734	1,435	4,309	9,444	(Z)	1,138	8,549
33	Primary metal industries.....	62	35	5,409	35,323	3,954	8,193	23,908	59,190	2,845	5,488	50,814
332	Iron and steel foundries.....	5	4	768	4,382	1,390	3,711	6,480	17,480	(Z)	776	5,049
336	Nonferrous foundries.....	15	8	704	4,142	584	1,175	3,120	5,647	(Z)	447	3,079
34	Fabricated metal products.....	363	111	12,505	74,068	9,681	20,339	52,083	142,401	5,295	9,436	82,357
342	Outletry, hand tools, hardware	19	7	860	4,676	656	1,385	3,201	9,049	(Z)	766	5,914
344	Structural metal products....	133	36	3,152	18,302	2,396	4,954	12,662	32,540	876	2,303	19,658
345	Screw machine products.....	40	11	1,310	8,218	930	1,983	5,313	13,670	571	1,137	10,183
346	Metal stampings.....	30	9	925	5,024	749	1,434	3,388	8,441	(Z)	645	4,700
348	Fabricated wire products, n.e.c.....	18	7	646	3,253	541	1,105	2,437	5,961	(Z)	511	4,294
349	Fabricated metal products, n.e.c.....	34	13	1,577	10,223	1,043	2,227	5,934	21,830	982	1,372	13,837
35	Machinery, except electrical...	513	101	9,976	64,983	7,199	15,037	42,245	106,326	4,485	8,756	77,082
353	Construction and like equipment.....	18	8	1,175	8,006	675	1,400	3,768	13,325	(Z)	1,207	10,766
354	Metalworking machinery.....	110	16	1,331	8,670	1,094	2,351	6,828	14,829	861	1,036	8,558
355	Special industry machinery...	99	30	2,764	19,468	2,110	4,487	13,273	30,418	1,096	2,683	24,326
356	General industrial machinery.	61	14	1,574	9,977	1,051	2,129	5,918	17,619	697	1,765	16,044
359	Miscellaneous machinery.....	181	20	1,715	10,122	1,409	2,936	8,133	16,778	1,302	1,124	9,128
36	Electrical machinery.....	234	97	30,366	207,046	19,130	38,256	113,915	329,536	9,088	(³)	(³)
361	Electric distribution products.....	28	9	1,282	6,976	1,065	2,165	4,646	13,201	(Z)	3,029	15,857
362	Electric industrial apparatus	20	8	988	5,372	734	1,555	3,337	9,852	(Z)	830	5,623
364	Lighting and wiring devices..	56	24	2,413	11,691	1,876	3,614	7,145	20,501	731	1,013	6,915
367	Electronic components.....	64	27	2,042	10,437	1,615	3,228	6,997	14,480	768	3,481	23,681
38	Instruments and related products.....	72	24	4,067	25,180	2,976	5,884	15,038	36,204	1,058	(³)	(³)
382	Mechanical measuring devices.	18	5	586	3,494	373	780	2,353	5,766	(Z)	475	4,307
39	Miscellaneous manufacturing, including ordnance ⁶	145	42	4,744	19,125	4,047	7,772	14,279	33,170	1,354	3,883	24,321
394	Toys and sporting goods.....	31	13	1,803	6,657	1,533	2,821	4,632	12,213	742	1,431	9,983
395	Pens, pencils and office supplies.....	9	5	761	3,970	591	1,264	3,038	5,531	(Z)	772	5,073
396	Costume jewelry and notions..	16	5	437	1,738	400	762	1,319	3,292	(Z)	614	3,847
--	Administrative and auxiliary ⁵ ..	-	-	5,854	45,852	-	-	-	-	-	2,220	-

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
		PHILADELPHIA, PA.-N.J., SMSA										
		("All manufacturing" totals for the Philadelphia Standard Metropolitan Statistical Area (which includes Burlington, Camden, and Gloucester Counties in New Jersey) appear in table 2. Industry group statistics for this area are shown in the 1963 Census of Manufactures report for the State of Pennsylvania.)										
		WILMINGTON, DEL.-N.J.-MD., SMSA										
		("All manufacturing" totals for the Wilmington Standard Metropolitan Statistical Area (which includes Salem County in New Jersey) appear in table 2. Industry group statistics for this area appear in the 1963 Census of Manufactures report for the State of Delaware.)										

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Data for 1958 for Industries 3662 and 3811 not directly comparable with data for 1963. See 1963 Census of Manufactures preliminary reports for Industries 3662 and 3811 for a more detailed explanation. Totals for Group 36, Electrical Machinery, and Group 38, Instruments and Related Products, amounted to 29,092 employees and \$234,124 thousand dollars value added in 1958.

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D. C. 20233

POSTAGE AND FEES PAID
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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES

MC63(P)-S32



Area series

NEW MEXICO

preliminary report

Value added by manufacturing in 1963 in the State of New Mexico amounted to \$170 million, an increase of 14 percent from 1962 and 35 percent from 1958. The Albuquerque Standard Metropolitan Statistical Area, with \$98 million value added, accounted for 58 percent of the State's total value added.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	735	164	15,236	81,249	10,091	20,598	46,598	170,453	9,491	111	135
1962.....	(NA)	(NA)	14,030	72,253	9,297	18,764	42,663	^r 149,024	^r 7,183	102	118
1961.....	(NA)	(NA)	13,355	65,974	9,020	18,568	40,079	^r 135,177	^r (8,974)	97	107
1960.....	(NA)	(NA)	13,672	65,820	9,326	19,570	40,542	^r 138,800	^r 19,405	100	110
1959.....	(NA)	(NA)	13,552	63,675	9,470	19,990	39,512	^r 129,162	^r 18,731	99	102
1958.....	665	153	13,740	59,428	9,795	19,203	37,950	^r 126,043	^r 21,446	100	100

(NA) Not available. ^rRevised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS,



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

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Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufac-ture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW MEXICO, TOTAL.....	735	164	15,236	81,249	10,091	20,598	46,598	170,453	9,491	13,740	126,043
STANDARD METROPOLITAN STATISTICAL AREAS											
Albuquerque ⁴	261	71	8,041	46,788	4,942	10,276	25,526	98,182	3,516	6,670	68,205
COUNTIES ¹											
Bernalillo.....	261	71	8,041	46,788	4,942	10,276	25,526	98,182	3,516	6,670	68,205
Cbaves.....	42	14	889	4,174	465	1,011	1,916	8,635	(Z)	759	9,445
Colfax.....	28	6	332	1,177	265	469	887	1,959	(Z)	391	1,838
Curry.....	34	7	492	2,244	326	645	1,203	4,968	1,103	415	3,143
Dona Ana.....	25	4	292	1,959	112	218	399	2,298	(Z)	426	2,982
Eddy.....	35	9	602	3,080	448	884	2,134	6,103	(Z)	646	6,592
Lea.....	39	5	391	2,173	276	570	1,516	3,969	799	456	7,012
Luna.....	13	2	286	1,378	221	528	844	2,927	(Z)	178	812
McKinley.....	12	3	597	2,855	512	1,053	2,178	7,436	642	387	4,220
Otero.....	25	4	299	2,095	173	333	555	1,553	(Z)	343	2,004
Rio Arriba.....	13	5	278	830	242	463	730	1,466	(Z)	242	1,005
San Juan.....	32	7	357	2,058	230	487	1,157	4,767	(Z)	436	4,624
San Miguel.....	17	3	259	746	223	402	602	1,110	(Z)	326	1,280
Santa Fe.....	40	9	771	3,880	561	1,162	2,591	7,015	(Z)	646	4,368

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Albuquerque Standard Metropolitan Statistical Area is coextensive with Bernalillo County, N. Mex.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufac-ture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	735	164	15,236	81,249	10,091	20,598	46,598	170,453	9,491	13,740	126,045
20	Food and kindred products.....	156	50	3,548	16,061	1,997	4,193	7,542	33,971	2,525	3,507	29,176
201	Meat products.....	24	8	715	3,321	512	1,098	2,309	7,069	(Z)	503	4,681
202	Dairies.....	20	8	713	3,588	278	671	1,264	9,007	1,385	895	7,272
204	Grain mill products.....	16	4	262	1,108	186	355	526	2,319	(Z)	283	2,345
205	Bakery products.....	29	11	887	3,884	430	926	1,541	7,660	(Z)	844	7,289
208	Beverages.....	32	12	575	2,614	289	510	799	4,489	(Z)	518	3,870
209	Miscellaneous foods and kindred products.....	32	7	358	1,476	266	582	1,041	3,009	(Z)	421	3,421
23	Apparel and related products...	24	3	317	879	295	541	767	1,733	(Z)	506	2,091
24	Lumber and wood products.....	116	27	2,226	8,405	1,984	3,728	6,994	13,621	1,791	1,812	11,559
242	Sawmills and planing mills...	52	16	1,402	5,064	1,275	2,296	4,183	8,538	1,178	1,220	6,315
243	Millwork and related products	26	6	458	2,292	389	828	1,854	3,241	(Z)	336	4,016
27	Printing and publishing.....	123	17	1,469	7,519	849	1,632	4,330	14,235	735	1,436	11,945
271	Newspapers.....	43	12	1,013	5,293	531	1,002	2,792	10,504	548	1,001	8,419
275	Commercial printing.....	56	4	344	1,702	252	508	1,208	2,783	(Z)	382	3,156
29	Petroleum and coal products....	8	6	504	3,225	392	795	2,302	10,356	(Z)	661	9,380
32	Stone, clay and glass products.	76	17	1,286	6,793	928	1,942	4,504	19,212	1,887	1,066	8,064
327	Concrete and plaster products	63	14	1,051	5,467	754	1,592	3,611	13,298	1,606	833	6,810
34	Fabricated metal products.....	27	5	339	1,625	277	571	1,183	3,261	(Z)	492	4,075
35	Machinery, except electrical...	76	10	635	3,746	483	1,053	2,609	6,274	(Z)	563	4,823
359	Miscellaneous machinery.....	53	4	380	2,361	316	699	1,832	4,020	(Z)	309	2,332
--	Administrative and auxiliary ³ ..	-	-	156	2,338	-	-	-	-	-	97	-

- Represents zero. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES

MC63(P)-333

preliminary report

NEW YORK

Area series

Value added by manufacturing in 1963 in the State of New York amounted to \$19,510 million, an increase of 2 percent from 1962 and 23 percent from 1952. Of this total, \$2,556 million was contributed by the printing and publishing industries and \$2,448 million by the apparel and related products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100) ³	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	46,163	14,449	r1,849,991	11,116,459	1,255,014	2,452,216	6,178,969	19,510,191	774.69†	97	123
1962.....	(NA)	(NA)	r1,906,803	r10,899,239	1,281,602	2,495,652	5,996,715	19,124,684	758.026	100	120
1961 ³	(NA)	(NA)	r1,902,610	r10,447,597	1,235,699	2,492,953	5,744,234	18,023,104	651.795	99	114
1960 ³	(NA)	(NA)	r1,966,356	r10,474,150	1,340,700	2,596,999	5,847,913	18,012,302	741.523	103	113
1959 ³	(NA)	(NA)	r1,963,900	r10,179,321	1,347,258	2,614,919	5,728,875	17,514,164	696.143	103	112
1958.....	48,523	15,000	r1,915,512	r9,624,658	1,303,126	2,427,134	5,423,559	15,891,767	739.170	100	100

(NA) Not available.

† Revised.

¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

² Includes expenditures for both plants in operation and for plants under construction but not in operation.

³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

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Table 3.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958
(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW YORK, TOTAL.....	46,163	14,449	1,843,391	11,116,459	1,255,014	2,452,216	6,178,969	19,510,191	776,697	1,915,512	15,891,767
STANDARD METROPOLITAN STATISTICAL AREAS											
Albany-Schenectady-Troy ⁴	699	257	62,016	395,073	41,104	82,403	229,917	684,723	30,937	72,359	640,902
Binghamton ⁵	388	153	41,697	258,701	26,099	50,676	125,140	339,667	19,821	46,618	310,640
Portion in New York.....	332	134	39,296	248,260	24,110	46,802	117,629	324,535	19,287	44,328	299,777
Portion in Pennsylvania.....	56	19	2,401	10,441	1,989	3,874	7,511	15,132	534	2,290	10,863
Buffalo ⁶	1,775	657	162,375	1,102,875	117,622	241,768	732,728	2,067,231	116,399	173,874	1,715,627
New York ⁷	37,356	11,270	1,146,676	6,699,488	768,965	1,473,845	3,535,516	11,393,650	345,653	1,182,501	9,388,523
New York-Northeastern New Jersey ⁸	49,016	15,458	1,778,037	10,607,640	1,200,484	2,345,615	5,811,892	19,123,842	724,067	1,795,479	15,267,750
Portion in New York.....	37,356	11,270	1,146,676	6,699,478	768,965	1,473,845	3,535,516	11,393,650	345,653	1,182,501	9,388,523
Portion in New Jersey.....	11,660	4,188	631,361	3,908,152	431,519	871,770	2,276,376	7,730,192	378,414	612,978	5,879,227
Rochester ⁹	1,188	406	121,359	837,147	80,753	160,875	470,895	1,756,139	86,796	116,717	1,174,614
Syracuse ¹⁰	753	272	65,719	411,364	40,673	81,967	225,915	777,072	38,153	69,514	679,910
Utica-Rome ¹¹	462	166	37,934	214,331	26,813	53,857	130,668	446,192	15,605	40,562	344,834
COUNTIES ¹											
Albany.....	334	124	21,724	130,093	15,783	32,308	85,952	249,446	11,334	21,327	181,592
Allegany.....	66	15	2,842	16,927	1,929	3,791	9,775	32,239	707	3,130	29,388
Bronx (Bronx Borough).....	1,927	730	56,352	268,932	44,461	85,137	181,925	467,599	14,713	52,546	362,027
Broome.....	291	119	34,046	205,627	22,286	43,330	108,854	249,649	17,395	39,787	242,601
Cattaraugus.....	133	46	7,597	39,633	5,514	11,121	25,259	69,929	3,423	8,480	60,781
Cayuga.....	104	30	6,297	34,033	4,548	8,926	21,398	54,702	2,959	6,953	42,420
Chautauque.....	293	114	19,145	106,328	14,545	29,406	75,199	175,976	6,083	20,636	165,903
Chemung.....	101	45	13,576	76,862	10,106	19,952	51,656	143,706	7,260	14,962	135,065
Chemung.....	70	28	4,582	23,302	3,077	6,051	12,425	65,745	1,929	4,060	55,113
Clinton.....	66	22	3,183	15,973	2,314	4,979	11,729	52,585	3,008	2,235	38,459
Columbia.....	88	46	3,675	17,826	2,914	5,811	12,403	37,866	2,060	3,934	31,666
Cortland.....	83	33	5,918	28,100	4,623	9,158	19,861	55,067	1,844	4,750	34,770
Delaware.....	76	19	7,224	38,336	5,113	10,316	24,390	63,279	2,971	5,710	46,206
Dutchess.....	236	100	23,094	183,351	11,896	24,022	66,507	169,682	33,388	23,128	124,586
Erie.....	1,474	528	123,744	835,974	91,760	188,610	570,841	1,521,823	87,509	128,476	1,237,463
Essex.....	64	9	1,673	9,534	1,480	3,252	8,246	17,031	2,449	2,090	13,413
Franklin.....	69	19	1,747	6,046	1,527	3,035	4,837	10,071	(2)	1,537	7,878
Rulton.....	224	85	8,169	31,384	7,038	12,789	23,890	53,551	1,074	8,607	49,204
Ceresee.....	82	35	6,110	35,023	4,799	9,846	25,426	88,369	3,122	5,732	57,183
Greene.....	61	19	2,290	10,506	2,008	4,048	8,645	19,831	1,409	1,929	16,593
Herkimer.....	116	47	11,933	63,535	8,967	18,366	42,225	173,741	5,009	9,899	90,734
Jefferson.....	119	31	5,717	31,507	4,278	8,907	22,209	56,359	3,629	5,981	45,478
Kings (Brooklyn Borough).....	7,391	2,720	225,116	1,101,980	183,956	347,145	775,802	2,160,330	61,163	229,478	1,766,033
Lewis.....	47	14	1,862	9,850	1,454	3,064	6,901	17,199	2,005	1,648	13,087
Livingston.....	66	24	3,211	14,951	2,682	5,213	11,096	32,203	1,978	3,449	25,842
Madison.....	59	20	1,944	10,919	1,198	2,321	5,286	13,320	1,095	2,373	11,947
Monroe.....	959	327	109,346	778,728	71,293	141,744	431,869	1,627,087	80,127	104,215	1,072,709
Montgomery.....	110	53	8,479	39,436	6,183	12,496	23,731	74,276	3,217	9,240	62,902
Nassau.....	2,166	601	97,228	651,251	61,529	122,705	353,880	1,127,097	46,399	79,531	736,275
New York (Manhattan Borough).....	20,158	5,242	506,323	3,081,827	298,745	558,750	1,309,237	4,679,846	98,841	569,440	4,151,720
Niagra.....	301	129	38,631	266,901	25,862	53,158	161,887	545,408	28,890	45,398	478,164
Oneida.....	346	119	26,001	150,796	17,846	35,491	88,443	272,451	10,596	30,663	254,100
Onondaga.....	593	215	56,133	357,890	33,768	68,571	192,489	673,978	29,683	59,011	586,454
Ontario.....	97	44	4,150	22,675	3,021	6,245	14,663	42,708	3,480	4,182	31,507
Orange.....	349	162	15,280	68,591	12,685	24,397	50,010	137,243	6,909	15,687	104,153
Orleans.....	40	20	1,678	8,085	1,439	3,073	6,412	27,712	613	2,060	20,882
Oswego.....	101	37	7,642	42,555	5,707	11,075	28,140	89,774	7,375	8,130	81,509
Otsego.....	65	19	1,429	5,586	1,112	2,194	3,952	12,148	(2)	1,511	8,985
Putnam.....	39	7	945	5,137	706	1,419	3,422	10,017	595	979	5,034
Queens (Queens Borough).....	2,946	1,082	132,086	760,618	95,906	190,222	462,739	1,401,487	57,126	135,737	1,149,897
Rensselaer.....	159	57	10,213	49,724	7,483	14,348	32,614	108,103	3,022	11,937	104,400
Richmond (Richmond Borough).....	162	68	8,371	49,976	6,175	12,108	32,585	115,104	3,893	9,943	130,917
Rockland.....	198	77	12,381	75,444	8,877	17,697	45,849	256,044	13,317	11,480	212,233
St. Lawrence.....	96	29	7,207	47,557	5,554	11,380	34,874	118,683	4,574	6,832	60,044
Saratoga.....	98	41	7,802	41,983	6,029	12,104	29,219	81,269	9,898	7,148	59,642

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued
(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Schenectady.....	108	35	22,277	173,273	11,809	23,643	82,132	245,905	6,683	31,947	295,268
Schoharie.....	27	10	655	2,780	542	988	2,169	5,184	(Z)	1,085	10,154
Schuyler.....	21	6	1,042	6,036	786	1,691	3,887	13,329	1,261	1,190	14,275
Seneca.....	35	15	2,302	12,984	1,857	3,885	9,709	23,839	1,537	3,185	24,941
Steuben.....	107	36	14,746	93,090	9,636	19,818	51,469	130,307	6,856	13,817	103,733
Suffolk.....	1,010	289	43,611	291,025	30,771	62,501	178,663	433,027	15,533	32,453	271,779
Sullivan.....	86	9	704	3,023	544	1,083	2,225	7,352	(Z)	756	5,032
Tioga.....	41	15	5,250	42,633	1,824	3,472	8,775	74,886	1,892	4,541	57,176
Tompkins.....	57	13	5,506	29,497	4,112	8,071	19,495	48,615	1,395	5,538	43,731
Ulster.....	237	84	13,808	88,640	8,200	16,032	37,296	108,255	6,210	12,659	96,883
Warren.....	105	28	4,410	22,093	3,454	6,854	15,098	41,776	2,515	4,551	36,064
Washington.....	82	28	4,710	27,067	3,614	7,713	17,869	60,402	2,748	4,835	44,598
Wayne.....	123	35	7,124	35,383	5,339	10,845	21,518	69,137	4,078	6,993	55,181
Westchester.....	1,398	461	65,208	418,435	38,545	77,580	194,836	753,116	34,668	61,893	611,642
Wyoming.....	55	21	3,317	14,663	2,812	5,743	11,530	33,836	952	2,863	20,546
Yates.....	31	11	1,102	4,087	886	1,818	3,133	8,718	662	1,043	6,744

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Albany-Schenectady-Troy Standard Metropolitan Statistical Area consists of Albany, Rensselaer, Saratoga, and Schenectady Counties, N.Y.⁵The Binghamton Standard Metropolitan Statistical Area consists of Broome and Tioga Counties, N.Y.; and Susquehanna County, Pa.⁶The Buffalo Standard Metropolitan Statistical Area consists of Erie and Niagara Counties, N.Y.⁷The New York Standard Metropolitan Statistical Area consists of New York City-Bronx, Kings, New York, Queens, and Richmond Counties—and Nassau, Rockland, Suffolk, and Westchester Counties, N.Y.⁸The New York, N.Y.—Northeastern New Jersey Standard Consolidated Area consists of the following Standard Metropolitan Statistical Areas: New York, N.Y.;

Howark, N.J., Jersey City, N.J., Paterson-Clifton-Passaic, N.J., and of Middlesex and Somerset Counties, N.J.

⁹The Rochester Standard Metropolitan Statistical Area consists of Livingston, Monroe, Orleans, and Wayne Counties, N.Y.¹⁰The Syracuse Standard Metropolitan Statistical Area consists of Madison, Onondaga, and Oswego Counties, N.Y.¹¹The Utica-Rome Standard Metropolitan Statistical Area consists of Herkimer and Oneida Counties, N.Y.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	46,163	14,449	1,849,991	11,116,459	1,255,014	2,452,216	6,178,969	19,510,191	776,697	1,915,512	15,891,767
20	Food and kindred products.....	3,013	1,044	129,305	755,882	85,033	173,839	440,407	1,845,385	79,322	148,832	1,649,400
201	Meat products.....	335	133	12,707	78,521	9,727	20,928	54,158	137,367	5,377	13,745	125,524
202	Dairies.....	680	237	19,791	113,230	10,188	21,283	54,934	273,667	14,898	23,682	256,885
203	Canned and frozen foods.....	329	141	15,254	63,769	13,224	27,388	50,073	206,372	10,697	16,096	156,049
204	Grain mill products.....	133	44	6,766	43,097	5,272	10,884	30,468	141,396	5,213	8,274	133,459
207	Candy and related products... ..	126	55	12,790	61,165	10,046	19,350	41,205	164,391	6,118	13,560	152,837
21	Tobacco manufactures.....	33	4	330	970	293	536	811	2,952	(Z)	588	3,626
22	Textile mill products.....	1,697	677	55,620	262,155	46,526	91,356	191,018	474,580	17,833	60,105	410,471
222	Weaving mills, synthetic....	53	10	1,102	5,629	936	1,731	4,178	10,609	(Z)	1,296	9,821
223	Weaving, finishing mills, wool.....	67	23	3,432	19,784	2,627	5,076	13,010	31,875	1,385	4,101	31,930
224	Narrow fabric mills.....	78	18	1,995	10,435	1,615	3,154	7,326	20,371	593	2,442	17,502
225	Knitting mills.....	970	458	32,667	143,293	27,975	53,971	107,444	273,023	8,357	32,243	220,060
226	Textile finishing, except wool.....	206	57	4,787	25,639	4,111	8,508	20,074	52,501	2,876	5,259	40,460
228	Yarn and thread mills.....	80	25	2,479	10,366	1,890	6,373	18,797	6,373	(Z)	1,616	16,832
229	Miscellaneous textile goods..	196	75	7,303	37,621	5,922	11,954	26,011	58,758	3,028	7,545	52,385
23	Apparel and related products... ..	12,740	4,921	317,461	1,295,127	268,376	480,541	954,118	2,447,861	29,741	342,286	2,182,529
231	Men's and boys' suits and coats.....	405	194	30,970	137,337	26,858	47,445	108,287	239,638	1,803	31,587	191,330
232	Men's and boys' furnishings..	833	283	23,099	89,506	18,781	33,644	60,552	190,687	1,835	27,237	170,751
233	Women's and misses' outerwear.....	4,880	2,576	137,019	563,036	115,928	202,919	416,254	1,054,723	13,346	140,444	934,255
234	Women's and childrens' underwear.....	715	333	27,871	103,952	23,323	40,224	69,312	204,359	2,179	34,615	195,354
235	Millinery, hats and caps.....	726	206	12,347	50,356	10,705	19,395	40,164	83,328	665	15,357	97,483
236	Children's outerwear.....	740	365	22,076	82,193	18,826	33,444	58,340	159,684	1,923	26,008	158,383
237	Fur goods.....	1,392	84	8,380	52,076	6,945	17,223	42,223	99,717	1,067	8,489	86,721
238	Miscellaneous apparel.....	822	335	19,715	75,925	16,369	28,883	53,800	151,068	1,587	22,756	137,208
239	Fabricated textiles, n.e.c.....	2,227	545	35,984	140,746	30,641	57,361	105,186	264,657	5,336	35,793	211,044

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
24	Lumber and wood products.....	1,281	216	16,202	72,596	13,576	27,068	54,653	125,011	7,068	16,560	106,506
241	Logging camps and contractors	168	4	676	2,098	607	1,147	1,934	4,686	796	692	4,149
242	Sawmills and planing mills...	333	51	3,501	13,064	3,032	6,179	10,664	20,721	2,528	4,095	24,876
243	Millwork and related products	321	70	4,885	28,346	3,824	7,628	20,001	47,847	1,569	4,690	37,473
244	Wooden containers.....	82	18	1,370	5,277	1,217	2,320	4,232	9,480	639	1,323	6,014
249	Miscellaneous wood products..	377	73	5,770	23,811	4,896	9,794	17,822	42,277	1,536	5,760	33,994
25	Furniture and fixtures.....	1,591	385	33,529	173,201	27,568	55,775	128,905	292,136	7,969	36,233	271,401
251	Household furniture.....	917	222	18,216	86,774	15,208	29,794	65,516	146,620	4,216	21,258	146,235
252	Office furniture.....	85	35	4,918	25,864	4,020	8,101	19,479	45,623	1,429	4,385	41,983
253	Public building furniture....	25	6	593	3,218	481	974	2,374	5,648	(Z)	917	9,202
254	Partitions and fixtures.....	356	96	7,016	43,305	5,751	12,697	32,198	67,015	1,689	7,033	55,392
259	Furniture and fixtures, n.e.c.....	208	26	2,786	14,040	2,108	4,209	9,338	27,230	512	2,640	18,589
26	Paper and allied products.....	1,020	500	60,248	341,440	48,566	101,265	245,705	599,304	48,808	65,723	568,364
262	Paper mills, except building.	64	49	11,801	76,278	10,028	22,377	62,056	139,645	18,014	11,718	116,146
263	Paperboard mills.....	34	26	2,604	16,578	2,160	5,133	13,157	27,239	5,280	3,019	26,141
264	Paper and paperboard products	532	210	21,320	114,081	16,482	33,736	77,096	215,215	10,747	24,059	219,441
265	Paperboard containers and boxes.....	369	209	23,693	129,526	19,229	38,651	89,574	207,406	14,003	25,910	198,532
27	Printing and publishing.....	6,515	1,286	171,251	1,151,154	92,879	174,646	560,504	2,555,892	74,452	175,119	1,955,806
271	Newspapers.....	550	124	33,184	228,397	19,780	30,879	119,901	376,818	10,911	35,931	322,448
272	Periodicals.....	670	136	29,464	228,139	2,393	4,818	16,547	77,781	14,438	29,972	504,185
273	Books.....	543	166	24,600	158,638	7,905	15,727	46,400	532,724	12,655	21,136	337,626
274	Miscellaneous publishing....	423	45	6,987	43,695	2,016	3,948	11,084	86,540	2,098	6,303	79,256
275	Commercial printing.....	3,193	468	46,477	306,820	36,595	72,401	226,306	491,334	25,850	48,374	430,330
276	Manifold business forms.....	79	28	3,315	20,192	2,453	4,818	14,072	40,855	1,844	3,257	38,517
277	Greeting card manufacturing..	84	27	4,151	19,838	2,933	5,902	12,585	38,332	733	5,272	41,029
278	Bookbinding and related work.	448	142	12,443	60,980	10,826	20,749	48,246	96,215	2,993	13,017	84,643
279	Printing trades services.....	525	150	10,630	84,455	7,978	15,404	65,363	121,293	2,930	11,807	117,772
28	Chemicals and allied products..	1,343	347	61,732	399,453	40,079	81,199	218,516	1,357,895	57,214	64,261	1,110,614
281	Basic chemicals.....	138	51	13,887	95,876	9,463	19,519	59,710	230,129	15,426	15,773	211,041
283	Drugs.....	210	63	17,954	121,127	11,066	22,366	61,034	550,496	21,845	19,503	460,835
284	Cleaning and toilet goods....	445	101	13,716	73,893	9,116	17,857	39,454	29,642	6,508	12,295	224,081
285	Paints and allied products....	189	43	3,589	24,155	2,056	4,321	10,499	55,397	1,468	4,161	53,004
287	Agricultural chemicals.....	37	14	939	4,853	520	1,048	2,515	14,350	937	921	9,319
289	Miscellaneous chemical products.....	241	49	4,962	30,797	3,358	6,781	17,186	74,033	3,143	6,038	72,958
29	Petroleum and coal products...	144	28	2,406	17,890	1,642	3,420	11,832	48,675	3,418	3,021	34,395
291	Petroleum refining.....	10	5	987	7,790	739	1,465	5,704	19,898	1,243	1,208	12,089
295	Paving and roofing materials.	106	18	1,105	7,987	738	1,583	5,176	21,211	1,980	1,203	19,334
299	Petroleum and coal products, n.e.c.....	28	5	314	2,113	165	372	952	7,566	(Z)	312	2,972
30	Rubber and plastics products, n.e.c.....	782	296	30,299	142,121	25,151	48,921	100,337	269,044	17,887	25,401	193,518
306	Rubber products, n.e.c.....	84	32	6,038	29,371	4,600	8,683	19,553	57,542	1,829	5,738	42,855
31	Leather and leather products...	1,267	530	51,609	191,671	45,776	84,786	150,903	310,480	4,488	58,795	311,675
311	Leather tanning and finishing	117	31	3,335	16,859	2,905	5,562	13,781	28,836	(Z)	4,164	31,706
313	Footwear cut stock.....	74	23	1,426	5,238	1,263	2,379	4,298	8,813	(Z)	2,494	12,480
314	Footwear, except rubber.....	224	141	18,356	67,741	16,450	26,690	54,329	108,497	1,933	25,319	125,481
315	Leather gloves.....	84	41	3,967	11,753	3,519	5,344	9,258	17,185	(Z)	2,838	11,205
316	Luggage.....	125	50	3,685	12,977	3,277	6,260	10,262	22,627	(Z)	4,485	26,211
317	Purses and small leather goods.....	534	224	19,368	71,042	17,103	32,403	54,737	114,966	1,443	17,506	91,734
319	Leather goods.....	97	18	1,362	5,550	1,173	2,473	3,994	8,953	(Z)	1,906	11,736
32	Stone, clay and glass products.	1,058	267	39,073	241,377	30,140	61,534	169,030	473,968	31,726	40,742	384,423
323	Products of purchased glass..	197	37	3,499	17,103	2,916	5,784	12,715	31,150	1,210	3,899	30,864
325	Structural clay products....	24	12	1,275	7,198	1,090	2,281	5,737	11,458	1,565	1,762	11,890
326	Pottery and related products.	49	14	3,502	18,768	2,869	5,477	13,726	30,271	1,203	4,134	28,531
327	Concrete and plaster products	493	114	8,897	59,663	6,203	13,382	38,260	132,491	13,874	8,947	103,266
328	Cut stone and stone products.	82	11	824	4,340	658	1,236	3,312	7,281	(Z)	856	7,936
329	Nonmetallic mineral products.	170	54	12,268	79,527	8,682	17,342	49,985	154,068	6,640	10,963	112,124
33	Primary metal industries.....	507	250	67,780	454,383	54,612	108,712	343,600	908,473	49,895	68,340	667,696
331	Steel rolling and finishing..	54	35	31,066	224,931	25,376	49,802	174,890	457,320	26,883	32,060	345,848
332	Iron and steel foundries....	68	48	7,273	44,212	6,184	12,408	35,341	74,760	2,406	7,256	50,684
333	Primary nonferrous metal....	8	7	2,310	16,075	1,844	3,774	12,274	58,294	734	2,235	24,476
334	Secondary nonferrous metals..	59	14	1,815	11,723	1,300	2,609	7,383	25,310	5,629	1,488	10,965
335	Nonferrous rolling and drawing.....	88	57	17,063	108,608	13,093	26,107	76,392	211,043	11,128	15,658	163,553
336	Nonferrous foundries.....	161	63	6,269	37,869	5,196	10,748	29,064	61,235	2,088	5,407	38,775
339	Primary metal industries, n.e.c.....	69	26	1,984	10,965	1,619	3,264	8,256	20,511	1,027	4,236	24,395

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products.....	3,048	891	85,619	482,750	66,757	136,609	334,779	844,870	30,109	88,272	738,471
341	Metal cans.....	27	14	3,265	21,739	2,783	5,848	17,896	44,842	2,484	3,830	36,656
342	Cutlery, hand tools, hardware	244	100	11,380	60,172	8,799	17,373	40,383	110,888	3,506	11,891	94,427
343	Plumbing and heating, except electric.....	105	36	4,585	26,851	3,366	6,695	17,667	54,290	1,278	5,111	48,089
344	Structural metal products.....	994	296	26,637	164,014	19,780	40,311	109,856	266,784	6,923	29,565	267,313
345	Screw machine products.....	211	65	6,101	35,406	4,791	10,881	24,302	64,897	2,600	5,241	45,977
346	Metal stampings.....	335	123	12,090	65,994	9,759	19,853	46,469	113,597	3,841	11,780	91,021
347	Metal services, n.e.c.....	605	109	7,635	35,967	6,465	12,923	26,257	57,698	2,193	7,728	49,502
348	Fabricated wire products, n.e.c.....	214	59	4,842	24,155	3,889	7,959	17,108	41,710	1,500	4,943	34,641
349	Fabricated metal products, n.e.c.....	313	89	9,084	49,226	7,125	14,766	35,341	90,164	5,784	8,183	70,846
35	Machinery, except electrical... Construction and like equipment.....	2,812	622	131,680	899,585	88,254	181,304	534,105	1,516,356	74,531	139,103	1,180,700
353	Metalworking machinery.....	109	51	7,475	49,131	4,852	9,992	29,296	82,930	2,246	4,168	45,240
354	Special industry machinery...	773	136	17,410	117,690	13,337	27,985	83,523	206,491	8,728	16,564	136,555
355	General industrial machinery...	382	102	15,158	103,430	10,612	21,750	66,540	187,160	3,797	17,870	150,416
356	Office machines, n.e.c.....	328	97	24,625	159,270	16,153	33,239	93,098	262,430	12,741	22,934	192,158
357	Service industry machines...	79	39	37,156	273,124	21,829	44,681	131,511	366,769	31,304	42,457	264,334
358	Miscellaneous machinery.....	194	64	11,633	74,967	7,684	15,505	44,499	165,629	5,151	13,087	139,329
359	Miscellaneous machinery.....	902	116	8,971	52,105	7,353	15,350	39,482	87,124	4,412	9,458	72,423
36	Electrical machinery.....	1,680	722	185,388	1,191,955	116,813	232,254	619,989	1,948,630	75,791	r 140,657	r 1,279,688
361	Electric distribution products.....	139	66	7,387	42,919	5,204	10,021	24,989	69,580	2,340	7,612	62,790
362	Electric industrial apparatus	151	63	22,809	166,444	16,910	34,766	105,355	284,367	9,696	24,685	242,741
363	Household appliances.....	140	53	7,402	36,693	5,892	11,512	24,840	73,206	1,964	7,189	55,558
364	Lighting and wiring devices..	452	159	19,904	101,828	15,389	29,822	66,935	188,464	6,400	18,382	144,183
365	Radio and TV receiving equipment.....	200	60	13,260	76,573	9,728	18,656	47,089	161,422	4,686	r 11,490	r 114,162
366	Communication equipment.....	191	117	73,107	532,386	34,980	70,288	226,388	796,616	21,177	r 36,818	r 397,387
367	Electronic components.....	281	146	34,252	200,146	23,227	46,164	102,586	305,820	27,712	23,243	178,809
369	Electrical products, n.e.c.....	126	58	7,267	34,966	5,483	11,025	21,807	69,155	1,916	11,238	64,058
37	Transportation equipment.....	443	187	103,291	796,150	73,584	156,839	513,735	1,397,178	71,694	104,735	959,939
371	Motor vehicles and equipment.	145	63	40,771	311,891	33,081	74,623	243,891	647,021	44,243	35,163	371,202
372	Aircraft and parts.....	116	68	52,774	427,758	32,671	67,071	226,769	661,309	24,764	57,116	499,758
373	Ship and boat building.....	153	44	5,365	32,347	4,461	8,638	25,872	48,734	1,165	8,203	55,626
38	Instruments and related products.....	861	269	76,984	554,750	50,259	99,088	300,943	1,272,374	65,922	84,632	979,398
381	Scientific instruments.....	81	30	5,656	37,324	3,336	6,397	18,402	65,063	1,300	15,687	155,023
382	Mechanical measuring devices.	103	34	7,278	43,381	5,440	10,494	29,055	78,078	2,332	7,342	62,913
383	Optical instruments and lenses.....	57	16	3,049	18,729	2,235	4,433	12,064	28,081	1,422	2,599	20,451
384	Medical instruments and supplies.....	235	54	7,748	44,014	5,481	10,984	26,022	91,910	3,159	7,233	75,417
385	Ophthalmic goods.....	108	38	7,979	42,112	6,327	12,827	29,608	63,753	3,517	8,190	60,417
386	Photographic equipment.....	159	56	39,331	332,188	23,010	45,166	164,545	879,652	53,097	38,715	560,130
387	Watches, clocks, and watchcases.....	113	41	5,943	37,002	4,430	8,787	21,247	65,837	1,095	4,866	45,047
39	Miscellaneous manufacturing, including ordnance ³	4,326	1,007	96,843	435,367	79,248	152,696	305,079	819,127	28,764	r 118,975	r 902,947
391	Jewelry and silverware.....	1,088	121	12,740	70,458	9,682	19,503	47,409	132,776	2,154	11,812	100,953
393	Musical instruments and parts	50	18	2,456	11,801	1,975	3,565	8,847	18,249	976	2,081	14,920
394	Toys and sporting goods.....	655	252	25,807	95,157	22,240	42,203	68,575	203,461	11,856	27,223	197,794
395	Pens, pencils and office supplies.....	211	68	6,598	30,132	5,109	10,009	18,292	58,163	2,164	5,753	42,078
396	Costume jewelry and notions..	954	217	18,468	71,289	15,462	29,314	51,135	134,602	3,791	19,999	117,453
399	Miscellaneous manufactures ³ ..	1,369	332	31,124	158,102	25,093	48,653	114,356	271,747	7,998	r 52,107	r 429,749
190	Administrative and auxiliary ⁴ ..	-	-	133,478	1,256,482	-	-	-	-	-	r 133,132	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. r Revised.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES. 1963 AND 1953

(See text for explanation of column captions)

Code	Industry group	1963								1953		
		Establishments, number		All employees		Production workers			Value added by manufac-ture (\$1,000)	Capital expend-itures, new (\$1,000)	All employ-ees, number	Value added by manufac-ture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALBANY-SCHENECTADY-TROY SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	699	257	62,016	395,073	41,104	82,403	229,917	684,723	30,937	72,359	640,902
20	Food and kindred products.....	139	51	5,383	32,332	2,968	6,395	16,394	71,056	3,489	5,910	61,069
205	Bakery products.....	35	14	1,626	9,365	758	1,532	3,694	18,335	684	1,599	13,925
208	Beverages.....	23	11	886	5,694	462	881	2,817	18,439	978	1,049	14,650
22	Textile mill products.....	29	24	4,215	20,157	3,361	6,682	13,659	34,958	665	4,201	27,918
225	Knitting mills.....	13	11	1,519	5,480	1,397	2,767	4,729	12,252	(Z)	1,350	7,106
229	Miscellaneous textile goods...	8	7	835	3,993	694	1,465	2,718	6,246	(Z)	738	4,926
23	Apparel and related products...	62	39	6,090	20,510	5,279	9,333	17,262	35,939	(Z)	6,954	29,667
232	Men's and boys' furnishings...	13	11	3,231	10,852	2,798	4,980	9,217	19,960	(Z)	4,152	16,571
233	Women's and misses' outerwear...	21	12	1,064	3,688	945	1,586	3,278	4,378	(Z)	939	4,268
239	Fabricated textiles, n.e.c.....	14	5	485	1,808	387	635	1,367	2,946	(Z)	554	2,788
24	Lumber and wood products.....	40	7	574	2,453	484	914	1,712	4,188	(Z)	439	2,481
26	Paper and allied products.....	39	26	5,477	34,124	4,440	9,641	26,199	58,532	9,016	5,437	48,351
262	Paper mills, except building..	8	8	3,193	21,849	2,617	5,860	16,922	36,077	6,343	3,313	33,879
264	Paper and paperboard products.	16	9	1,171	5,976	894	1,823	4,404	10,543	975	981	6,256
265	Paperboard containers and boxes.....	12	6	874	4,759	709	1,432	3,493	9,400	871	806	5,922
27	Printing and publishing.....	111	24	4,462	26,932	3,209	6,269	18,906	46,075	1,923	4,611	37,506
271	Newspapers.....	17	5	1,569	9,361	849	1,604	5,316	14,232	1,247	1,619	11,927
275	Commercial printing.....	72	14	2,375	13,795	2,077	4,080	11,626	22,244	586	2,525	20,117
28	Chemicals and allied products...	30	8	3,507	23,265	2,276	4,731	12,441	75,182	3,691	3,196	62,547
32	Stone, clay and glass products..	53	14	5,046	32,023	3,460	7,066	20,111	67,352	3,526	4,158	42,866
327	Concrete and plaster products.	35	7	443	2,626	296	600	1,540	6,156	501	475	4,153
329	Nonmetallic mineral products..	7	4	4,131	25,652	2,756	5,667	15,545	54,993	2,485	3,404	37,203
33	Primary metal industries.....	11	9	2,755	19,702	2,032	4,427	14,261	38,217	1,054	3,438	30,530
332	Iron and steel foundries.....	5	5	1,056	6,992	856	1,774	5,209	13,961	(Z)	1,434	13,153
34	Fabricated metal products.....	47	16	1,777	9,487	1,373	2,613	6,560	16,309	501	2,060	13,462
344	Structural metal products.....	26	6	403	2,436	309	615	1,571	3,986	(Z)	351	2,336
349	Fabricated metal products, n.e.c.....	8	6	850	4,658	701	1,247	3,561	8,606	(Z)	1,091	7,984
39	Miscellaneous manufacturing....	23	5	997	4,458	825	1,612	3,332	9,798	(Z)	^r 855	^r 5,628
394	Toys and sporting goods.....	5	3	350	1,486	334	634	1,284	2,784	(Z)	315	1,956
--	Administrative and auxiliary ⁴ ...	-	-	5,266	46,768	-	-	-	-	-	9,084	-
BINGHAMTON SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	388	153	41,697	258,701	26,099	50,676	125,140	339,667	19,821	^r 46,618	310,640
20	Food and kindred products.....	60	16	1,312	6,416	756	1,498	3,424	12,903	747	2,245	17,958
202	Dairies.....	17	5	592	3,154	277	553	1,508	5,705	(Z)	987	7,157
23	Apparel and related products...	21	16	859	2,442	781	1,394	2,033	3,120	(Z)	893	2,938
24	Lumber and wood products.....	32	6	488	1,774	415	827	1,337	2,727	(Z)	460	1,917
26	Paper and allied products.....	11	4	350	1,796	280	614	1,188	3,538	(Z)	1,060	12,126
27	Printing and publishing.....	54	9	1,618	8,619	1,135	2,247	5,987	13,480	583	1,476	10,599
271	Newspapers.....	14	2	575	3,115	248	448	1,540	5,937	(Z)	627	5,233
28	Chemicals and allied products...	6	3	316	1,549	217	437	781	6,198	(Z)	248	4,373
33	Primary metal industries.....	7	5	653	3,483	563	1,151	2,848	4,941	(Z)	659	3,828
34	Fabricated metal products.....	23	10	844	4,517	706	1,362	3,416	7,610	(Z)	1,006	7,851
36	Electrical machinery.....	21	15	9,512	70,352	4,124	8,289	20,862	117,699	2,836	^r 3,252	^r 29,051
367	Electronic components.....	9	5	355	1,440	284	580	938	2,425	(Z)	352	1,375
--	Administrative and auxiliary ⁴ ...	-	-	1,092	5,505	-	-	-	-	-	^r 1,751	-

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BUFFALO SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	1,775	657	162,375	1,102,875	117,622	241,768	732,728	2,067,231	116,399	173,874	1,715,627
20	Food and kindred products.....	282	122	14,053	80,083	9,469	19,388	50,570	203,148	9,907	16,449	180,940
201	Meat products.....	38	22	1,371	7,741	976	2,123	5,156	15,208	629	1,200	8,251
202	Dairies.....	56	27	2,227	12,718	978	2,042	5,192	26,760	1,719	2,896	25,358
203	Canned and frozen foods.....	24	15	1,155	4,531	959	1,946	3,537	12,311	1,217	1,277	7,200
204	Grain mill products.....	31	17	4,238	28,014	3,556	7,167	21,706	97,925	3,820	5,021	89,495
208	Beverages.....	39	10	985	5,500	503	1,008	2,637	14,090	1,072	1,374	15,819
209	Miscellaneous foods and kindred products.....	28	7	497	2,543	360	750	1,576	5,404	(Z)	540	4,193
22	Textile mill products.....	17	11	1,320	7,311	1,002	2,054	4,361	14,099	637	1,407	10,123
229	Miscellaneous textile goods...	8	4	284	1,442	212	441	912	2,466	(Z)	253	1,626
23	Apparel and related products...	67	13	2,117	9,317	1,886	4,874	7,271	13,511	(Z)	2,657	13,509
239	Fabricated textiles, n.e.c.....	40	7	443	1,549	350	1,877	1,029	2,709	(Z)	503	3,153
24	Lumber and wood products.....	67	18	1,024	4,934	846	1,587	3,769	7,970	(Z)	1,015	5,875
243	Millwork and related products...	27	7	369	2,365	266	533	1,739	3,612	(Z)	387	2,997
249	Miscellaneous wood products...	24	8	408	1,672	355	642	1,241	2,915	(Z)	309	1,409
25	Furniture and fixtures.....	33	11	1,587	9,025	1,195	2,415	6,332	14,916	(Z)	1,692	13,099
251	Household furniture.....	19	7	841	4,656	673	1,321	3,326	8,042	(Z)	1,072	8,224
26	Paper and allied products.....	59	41	7,072	42,389	5,782	12,130	32,022	81,581	3,860	7,352	73,381
264	Paper and paperboard products...	17	11	2,122	11,981	1,658	3,316	8,516	31,711	749	2,376	28,198
265	Paperboard containers and boxes.....	13	21	2,362	13,120	1,845	3,786	8,666	20,420	969	2,109	14,926
27	Printing and publishing.....	235	47	7,205	45,192	4,752	8,827	28,421	76,912	3,281	6,390	62,462
271	Newspapers.....	34	6	2,558	15,648	1,177	1,957	7,161	25,854	(Z)	1,295	13,012
275	Commercial printing.....	138	25	2,590	16,132	2,052	3,911	11,627	24,260	2,036	20,750	20,750
279	Printing trades services.....	23	5	254	1,796	199	377	1,428	2,490	(Z)	280	2,748
28	Chemicals and allied products...	111	39	12,644	90,441	8,234	16,733	53,390	211,106	15,625	15,236	219,121
281	Basic chemicals.....	30	18	7,579	53,534	5,002	10,165	32,651	114,663	10,067	8,606	113,744
282	Fibers, plastics, rubbers.....	9	8	3,390	26,622	2,388	4,869	16,548	55,769	4,504	3,466	52,444
283	Drugs.....	15	3	363	2,594	172	352	806	13,780	596	731	11,364
285	Paints and allied products.....	11	4	581	3,702	350	727	1,770	11,849	(Z)	617	11,251
29	Petroleum and coal products.....	19	10	853	6,252	634	1,311	4,458	21,349	1,078	1,004	13,409
30	Rubber and plastics products, n.e.c.....	35	21	4,979	29,489	4,046	8,167	21,671	54,190	2,755	5,447	53,864
307	Plastics products, n.e.c.....	27	15	2,874	15,186	2,428	4,787	11,121	26,131	1,827	2,092	18,582
32	Stone, clay and glass products...	94	37	6,753	45,686	4,977	9,740	30,808	86,572	4,841	7,198	72,715
327	Concrete and plaster products...	52	16	1,247	8,146	987	2,004	6,135	16,201	996	1,663	17,090
329	Nonmetallic mineral products...	24	13	4,429	31,827	3,078	5,984	20,340	59,920	2,322	3,958	41,822
33	Primary metal industries.....	67	44	30,450	213,635	25,131	48,249	166,959	426,629	27,949	31,858	348,481
331	Steel rolling and finishing...	16	16	23,083	166,125	19,049	36,349	129,990	336,291	23,066	24,344	282,483
332	Iron and steel foundries.....	15	13	3,024	19,622	2,566	4,988	15,673	35,901	1,342	2,344	16,478
336	Nonferrous foundries.....	16	5	365	2,006	307	633	1,555	3,865	(Z)	633	4,389
34	Fabricated metal products.....	207	79	10,044	60,267	7,442	15,421	41,301	106,128	4,258	8,792	79,151
342	Cutlery, hand tools, hardware...	15	10	1,645	9,346	1,223	2,246	6,163	18,502	784	506	3,913
344	Structural metal products.....	92	31	2,448	14,736	1,773	3,732	9,475	22,891	738	3,411	31,872
346	Metal stampings.....	17	9	1,155	6,223	896	1,844	4,370	10,228	(Z)	815	4,956
347	Metal services, n.e.c.....	30	9	465	2,273	356	718	1,531	3,319	(Z)	403	2,357
348	Fabricated wire products, n.e.c.....	14	3	680	4,409	493	1,110	2,999	6,693	(Z)	512	4,758
349	Fabricated metal products, n.e.c.....	19	9	2,114	12,847	1,513	3,322	9,076	21,366	1,493	1,114	10,737
35	Machinery, except electrical....	255	75	12,415	83,396	7,878	16,193	46,638	136,778	5,421	13,169	105,240
354	Metalworking machinery.....	71	19	2,044	14,779	1,483	3,082	9,585	23,666	1,497	2,221	18,528
355	Special industry machinery....	26	12	1,414	9,747	959	1,965	5,813	16,318	(Z)	1,894	15,655
356	General industrial machinery...	41	15	6,180	42,461	3,433	7,003	20,281	56,699	2,663	6,372	49,898
358	Service industry machines.....	17	6	1,067	6,666	734	1,526	4,189	20,579	(Z)	607	4,679
359	Miscellaneous machinery.....	85	16	1,131	6,356	886	1,832	4,732	11,747	645	895	6,062
36	Electrical machinery.....	71	29	11,542	85,546	7,743	16,372	46,985	135,671	5,314	11,576	124,350
362	Electric industrial apparatus...	19	10	6,288	34,298	4,972	10,921	33,159	85,917	3,935	7,330	78,209
37	Transportation equipment.....	41	27	28,655	229,175	22,498	50,612	169,096	427,139	28,416	33,431	297,943
371	Motor vehicles and equipment...	18	13	22,758	182,228	18,902	43,267	146,804	365,973	26,544	18,892	181,980
372	Aircraft and parts.....	14	9	5,558	45,480	3,320	6,857	21,194	58,950	1,813	13,927	112,005
38	Instruments and related products...	28	10	2,606	16,436	1,778	3,575	9,559	28,463	1,224	2,324	20,023
384	Medical instruments and supplies.....	13	5	1,079	6,789	666	1,322	3,362	12,094	(Z)	540	4,150
39	Miscellaneous manufacturing, including ordnance ³	77	20	2,774	13,342	2,154	3,791	8,613	20,126	727	2,686	20,967
394	Toys and sporting goods.....	14	3	927	4,223	769	1,388	2,813	10,374	(Z)	1,222	8,440
398	Miscellaneous manufactures ³ ...	31	7	1,261	6,147	921	1,500	3,670	4,883	(Z)	719	6,045
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	4,094	30,247	-	-	-	-	-	R 3,997	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new*	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW YORK SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	37,356	11,270	1,146,676	6,699,488	768,965	1,473,845	3,535,516	11,393,650	345,653	1,182,501	9,388,523
20	Food and kindred products.....	1,496	513	73,245	464,079	46,639	93,532	258,521	1,009,585	39,685	85,994	961,284
201	Meat products.....	176	75	7,204	45,603	5,667	11,932	31,985	75,101	2,573	8,017	72,219
202	Dairies.....	159	68	7,532	49,820	3,850	7,780	24,085	111,613	5,562	8,722	120,518
203	Canned and frozen foods.....	177	51	3,161	15,551	2,508	5,014	10,223	36,409	1,269	4,253	33,832
204	Grain mill products.....	30	13	905	6,081	608	1,287	3,572	23,543	502	1,186	17,999
205	Bakery products.....	427	134	22,439	139,651	13,224	26,513	73,199	247,824	7,511	26,967	243,116
207	Candy and related products...	94	41	9,339	43,730	7,201	13,749	27,959	99,000	4,533	10,014	93,170
208	Beverages.....	195	55	12,838	101,125	6,750	12,691	47,826	256,424	7,221	14,674	232,889
209	Miscellaneous foods and kindred products.....	231	71	6,830	40,041	4,742	10,150	24,511	117,995	5,297	8,525	109,357
21	Tobacco manufactures.....	26	2	264	751	240	435	656	2,539	(2)	456	2,884
22	Textile mill products.....	1,509	562	36,573	170,842	30,885	59,197	126,189	333,692	11,693	36,380	270,558
222	Weaving mills, synthetics....	49	9	924	4,936	774	1,383	3,578	8,766	(2)	813	6,545
224	Narrow fabric mills.....	69	13	1,015	5,084	901	1,643	3,849	11,311	(2)	1,337	10,338
225	Knitting mills.....	889	399	24,496	110,491	20,808	39,308	81,754	215,790	6,774	24,256	176,537
226	Textile finishing, except wool.....	187	46	3,447	18,734	2,975	6,245	15,033	39,633	2,252	3,724	29,432
228	Yarn and thread mills.....	72	22	2,149	8,808	1,590	3,206	5,111	15,746	(2)	1,369	9,861
229	Miscellaneous textile goods...	149	50	3,030	14,807	2,482	4,890	10,330	27,741	1,343	3,387	24,249
23	Apparel and related products...	12,234	4,130	282,975	1,174,605	237,474	424,414	854,478	2,250,243	27,630	304,878	2,015,493
231	Men's and boys' suits and coats.....	376	177	21,431	97,279	18,239	31,837	74,429	178,564	1,121	21,935	143,341
232	Men's and boys' furnishings...	773	242	16,628	67,631	13,085	23,357	42,749	149,977	1,515	19,454	139,162
233	Women's and misses' outerwear	4,716	2,443	128,217	537,154	107,719	188,978	393,459	1,016,019	12,897	132,461	904,865
234	Women's and children's underwear.....	677	302	23,927	91,734	19,772	33,924	59,525	185,477	1,936	29,997	175,004
235	Millinery, hats and caps.....	716	202	12,130	49,549	10,522	19,066	39,545	81,953	651	14,958	95,521
236	Children's outerwear.....	724	351	21,209	79,631	18,020	31,961	56,164	156,363	1,896	24,581	152,086
237	Fur goods.....	1,383	84	8,301	51,865	6,881	17,057	42,069	99,456	1,064	8,419	86,439
238	Miscellaneous apparel.....	773	313	17,570	67,694	14,643	25,773	48,043	133,513	1,411	19,353	118,871
239	Fabricated textiles, n.e.c....	2,096	516	33,562	132,058	28,593	52,461	98,495	248,921	5,139	33,720	200,204
24	Lumber and wood products.....	555	95	7,214	35,354	6,005	11,871	26,570	62,416	2,373	6,980	47,300
243	Millwork and related products	207	38	2,607	15,968	2,033	4,143	11,934	27,191	816	2,389	19,468
244	Wooden containers.....	57	10	904	3,625	797	1,494	2,831	6,891	554	747	4,207
249	Miscellaneous wood products..	256	38	3,307	14,341	2,786	5,612	10,675	25,899	737	3,461	21,745
25	Furniture and fixtures.....	1,346	283	20,935	109,327	17,234	35,041	81,403	185,561	4,542	22,099	162,577
251	Household furniture.....	776	157	11,233	54,005	9,325	18,081	40,636	89,938	2,402	13,235	90,568
252	Office furniture.....	68	23	2,021	9,615	1,721	3,426	7,373	19,444	(2)	1,452	11,563
254	Partitions and fixtures.....	313	82	5,556	34,541	4,638	10,368	26,284	54,580	1,405	5,259	43,960
259	Furniture and fixtures, n.e.c.....	175	19	1,993	10,360	1,437	2,932	6,539	20,265	(2)	1,655	12,089
26	Paper and allied products.....	712	297	27,280	145,295	22,312	44,962	101,562	250,991	15,005	30,365	251,137
264	Paper and paperboard products	489	157	13,203	68,953	10,578	21,432	47,142	126,938	5,942	14,010	114,496
265	Paperboard containers and boxes.....	251	135	13,614	73,160	11,343	22,613	51,735	118,804	5,780	15,647	128,257
27	Printing and publishing.....	5,366	1,060	141,073	973,641	72,783	136,167	447,003	2,233,799	62,605	145,520	1,693,454
271	Newspapers.....	250	60	22,058	167,003	14,131	20,622	88,202	267,210	7,368	25,912	237,655
272	Periodicals.....	629	132	28,961	225,187	2,172	4,458	15,000	765,129	14,137	29,519	500,775
273	Books.....	498	145	20,842	133,227	5,378	10,705	30,917	480,234	11,938	17,873	301,498
274	Miscellaneous publishing.....	388	42	6,676	42,466	1,855	3,711	10,598	84,634	1,969	5,982	77,084
275	Commercial printing.....	2,600	376	36,727	247,315	28,723	57,021	181,796	392,652	20,458	37,602	343,495
276	Manifold business forms.....	66	19	1,361	8,182	1,003	1,952	5,466	13,163	802	1,288	11,425
277	Greeting card manufacturing..	80	26	3,876	18,829	2,704	5,451	11,798	36,395	711	4,868	36,993
278	Bookbinding and related work.	407	126	10,872	53,584	9,533	18,195	42,978	82,310	2,605	11,530	74,548
279	Printing trades services.....	447	134	9,701	77,848	7,264	14,052	60,248	112,072	2,599	10,946	109,981
28	Chemicals and allied products..	1,003	239	33,223	208,973	21,196	42,659	108,284	793,893	24,214	34,807	643,992
281	Basic chemicals.....	71	22	2,184	15,386	1,346	2,749	7,612	40,596	1,576	2,355	26,977
282	Fibers, plastics, rubbers....	52	13	1,248	7,935	860	1,848	4,696	14,501	920	825	13,810
283	Drugs.....	165	50	12,937	85,969	8,327	16,801	46,233	384,416	14,237	14,750	340,675
284	Cleaning and toilet goods....	359	79	10,861	60,063	7,069	13,846	31,160	268,237	5,041	9,804	182,750
285	Paints and allied products...	156	35	2,743	18,785	1,588	3,359	8,169	40,381	1,224	3,288	39,703
289	Miscellaneous chemical products.....	188	39	3,151	20,340	1,940	3,927	10,085	44,627	1,169	3,589	38,532
29	Petroleum and coal products...	44	14	1,053	8,462	654	1,343	5,177	16,206	1,249	1,182	15,579
30	Rubber and plastics products, n.e.c.....	639	224	17,888	77,553	14,970	28,701	53,767	150,605	11,701	12,682	91,726
307	Plastics products, n.e.c.....	570	203	15,017	65,983	12,803	24,886	46,373	128,657	11,247	11,585	83,750
31	Leather and leather products...	999	376	29,989	115,643	26,363	49,640	88,683	195,290	2,507	34,010	193,514
311	Leather tanning and finishing	54	1	254	1,629	188	356	1,020	4,317	(2)	114	4,221
314	Footwear, except rubber.....	172	98	8,069	33,867	7,140	12,790	25,974	57,440	671	31,275	64,819
316	Luggage.....	121	49	3,599	12,594	3,202	6,111	10,018	22,174	(2)	4,359	25,513
317	Purses and small leather goods.....	493	197	15,836	58,767	13,916	26,458	45,210	96,421	1,289	14,691	79,110
319	Leather goods, n.e.c.....	89	17	1,282	5,117	1,114	2,351	3,722	8,334	(2)	1,833	11,107
32	Stone, clay and glass products.	587	132	10,686	65,951	7,999	16,528	42,858	131,285	11,259	11,241	112,707
323	Products of purchased glass..	177	34	2,385	10,874	1,938	3,886	7,638	18,853	872	2,833	20,096
327	Concrete and plaster products	185	54	4,383	33,113	2,943	6,579	20,578	72,934	8,804	3,996	54,084
328	Cut stone and stone products	56	9	600	3,350	471	864	2,529	5,754	(2)	736	7,032
329	Nonmetallic mineral products.	113	28	2,577	15,459	2,005	3,922	9,584	28,105	1,048	2,518	25,002

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW YORK SMSA—Continued (See footnotes at end of table 2 for SMSA description)												
33	Primary metal industries.....	303	112	14,078	85,813	11,209	22,831	61,697	186,820	8,348	12,831	117,383
331	Steel rolling and finishing...	24	7	1,469	11,189	1,244	2,552	8,612	37,489	1,125	1,341	15,729
332	Iron and steel foundries....	11	4	399	1,972	356	722	1,641	2,617	(Z)	651	4,095
334	Secondary nonferrous metals...	45	8	1,153	6,970	909	1,787	4,936	16,562	1,294	1,065	7,414
335	Nonferrous rolling and drawing	65	37	6,684	40,799	5,098	10,435	27,750	80,877	4,811	5,635	58,582
336	Nonferrous foundries.....	110	37	2,770	15,384	2,308	4,716	11,466	25,738	638	2,455	16,921
34	Fabricated metal products.....	2,340	618	51,880	288,709	41,040	84,409	200,221	502,184	16,551	52,978	436,721
341	Metal cans.....	20	10	2,253	14,933	1,904	4,127	12,025	28,726	1,822	2,794	24,301
342	Cutlery, hand tools, hardware,	164	57	4,826	24,976	3,662	7,393	15,636	47,530	1,868	5,258	46,511
343	Plumbing and heating, except electric.....	82	22	1,917	9,902	1,392	2,783	5,829	19,599	(Z)	1,797	16,226
344	Structural metal products....	733	208	17,650	107,651	13,371	27,013	73,284	177,044	4,642	17,455	155,564
345	Screw machine products.....	145	41	3,995	24,898	3,148	7,347	16,957	44,614	1,732	3,734	31,673
346	Metal stampings.....	261	85	7,453	40,594	6,111	12,458	28,705	70,252	2,289	7,652	59,032
347	Metal services, n.e.c.....	505	85	6,069	27,886	5,203	10,526	21,102	45,987	1,786	6,259	40,584
348	Fabricated wire products, n.e.c.....	178	48	3,556	16,692	2,874	5,829	11,683	29,877	923	3,788	26,427
349	Fabricated metal products, n.e.c.....	252	62	4,161	21,177	3,375	6,933	15,000	38,555	1,083	4,241	36,403
35	Machinery, except electrical...	1,810	324	36,742	237,947	27,268	56,727	159,349	430,512	12,983	32,421	286,860
354	Metalworking machinery.....	473	62	4,736	29,543	3,800	7,945	22,035	49,344	2,581	4,695	38,908
355	Special industry machinery...	264	56	9,432	65,567	7,059	14,509	45,878	122,681	1,609	11,124	95,017
356	General industrial machinery...	198	42	4,202	26,747	2,946	6,117	16,293	52,510	2,070	3,062	29,238
357	Office machines, n.e.c.....	47	19	4,389	27,556	2,991	6,369	14,712	53,893	1,656	2,020	16,256
358	Service industry machines....	140	39	3,319	20,105	2,457	5,010	13,005	46,522	957	3,118	36,244
359	Miscellaneous machinery.....	621	84	6,250	37,495	5,152	10,885	28,427	61,610	3,165	6,951	55,481
36	Electrical machinery.....	1,385	558	93,605	575,399	61,809	122,004	314,768	940,480	31,055	62,944	500,399
361	Electric distribution products	110	56	6,099	36,395	4,286	8,223	20,870	56,355	1,641	6,725	54,152
362	Electric industrial apparatus.	102	34	4,167	22,591	3,085	5,998	14,049	41,296	1,427	4,604	35,107
363	Household appliances.....	118	41	5,086	25,081	4,249	8,542	17,933	46,481	1,335	4,147	32,038
364	Lighting and wiring devices...	407	141	14,758	72,342	11,702	22,474	48,554	135,790	4,660	13,657	105,096
365	Radio and TV receiving equipment.....	179	49	5,017	28,274	3,730	6,911	16,171	58,580	2,657	11,701	99,937
366	Communication equipment.....	149	86	39,356	292,892	20,973	42,316	140,782	431,383	13,487	12,623	100,663
367	Electronic components.....	216	103	13,878	73,153	9,857	19,764	41,546	119,713	4,477	8,449	37,820
37	Transportation equipment.....	298	118	54,900	436,090	36,537	76,106	255,997	735,983	31,630	49,911	489,778
372	Aircraft and parts.....	87	50	43,011	354,893	26,821	55,299	192,249	548,479	21,660	36,119	335,125
38	Instruments and related products	711	205	27,307	164,670	19,208	37,773	94,450	296,999	7,380	32,993	302,360
382	Mechanical measuring devices..	84	24	3,873	24,931	2,790	5,515	15,788	42,449	1,040	3,914	33,861
384	Medical instruments and supplies.....	192	40	4,410	23,250	3,234	6,387	14,430	56,059	1,586	4,749	49,140
385	Ophthalmic goods.....	94	32	2,600	10,433	2,210	4,377	7,509	17,316	5,474	2,389	14,710
386	Photographic equipment.....	116	30	4,175	27,596	2,728	5,350	14,390	43,285	1,409	4,434	52,440
387	Watches, clocks, and watchcases.....	113	41	5,943	37,002	4,430	8,787	21,247	65,837	1,095	4,865	45,047
39	Miscellaneous manufacturing, including ordnance ³	3,993	908	81,500	361,794	67,160	129,505	253,883	684,567	23,228	103,889	791,787
391	Jewelry and silverware.....	1,054	113	10,388	57,335	7,797	15,618	37,271	108,918	1,483	9,438	83,138
393	Musical instruments and parts.	41	13	1,797	8,145	1,382	2,372	5,864	13,046	843	1,358	10,329
394	Toys and sporting goods.....	567	218	22,008	80,048	19,019	36,273	57,959	175,628	10,919	23,834	175,177
395	Pens, pencils and office supplies.....	186	62	5,951	26,832	4,643	9,106	16,329	47,908	1,766	5,147	34,866
396	Costume jewelry and notions...	937	209	17,240	65,609	14,620	27,778	47,911	124,469	3,554	18,839	110,560
398												
399	Miscellaneous manufactures ³ ...	1,209	294	24,506	125,397	20,012	38,909	89,915	216,972	4,838	48,273	377,717
190												
--	Administrative and auxiliary ⁴ ...	-	-	104,266	998,600	-	-	-	-	-	107,940	-
NEW YORK-NORTHEASTERN NEW JERSEY SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	49,016	15,458	1,778,037	10,607,640	1,200,484	2,345,615	5,811,892	19,123,842	724,067	1,795,479	15,267,750
20	Food and kindred products.....	2,204	788	116,793	740,075	75,837	153,000	428,351	1,808,797	85,399	129,503	1,575,058
201	Meat products.....	250	110	11,332	72,395	8,888	18,842	51,052	148,807	3,875	12,406	118,511
202	Dairies.....	290	118	11,926	78,424	6,098	12,401	37,135	169,771	8,993	13,904	182,530
203	Canned and frozen foods.....	230	73	5,147	26,519	4,100	8,290	18,014	72,811	2,612	5,817	54,357
204	Grain mill products.....	57	20	1,633	11,278	1,037	2,236	5,743	35,582	1,305	1,533	23,071
205	Bakery products.....	595	198	33,959	205,237	20,904	42,495	113,736	378,392	20,114	37,153	338,316
207	Candy and related products...	137	58	12,171	57,192	9,570	18,407	37,633	129,896	6,143	12,563	114,782
208	Beverages.....	300	90	21,638	165,551	12,206	22,936	87,110	440,176	15,872	24,774	387,388
209	Miscellaneous foods and kindred products.....	346	116	15,989	100,993	10,944	22,975	62,758	379,553	21,260	17,717	316,919
21	Tobacco manufactures.....	29	4	640	2,500	529	997	1,789	11,444	(Z)	1,156	12,093
212	Cigars.....	21	3	409	1,263	374	681	1,106	3,904	(Z)	787	5,781

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NEW YORK-NORTHEASTERN NEW JERSEY SMSA—Continued (See footnotes at end of table 2 for SMSA description)												
22	Textile mill products.....	2,039	797	57,298	285,298	48,579	95,955	213,929	535,109	20,585	63,393	463,702
221	Weaving mills, cotton.....	41	11	716	3,130	649	1,309	2,742	7,419	(Z)	1,004	9,477
222	Weaving mills, synthetics....	87	29	2,157	11,683	1,833	3,504	9,054	22,326	(Z)	2,263	20,215
223	Weaving, finishings mills, wool.....	70	21	1,847	9,503	1,628	3,178	7,628	16,962	1,067	2,946	20,163
224	Narrow fabric mills.....	122	26	2,184	11,006	1,865	3,402	8,096	20,825	(Z)	2,433	17,143
225	Knitting mills.....	1,044	478	29,399	132,633	25,207	47,992	99,409	250,850	8,942	29,693	206,322
226	Textile finishing, except wool.....	313	118	10,727	64,895	9,259	20,136	51,834	117,381	5,400	13,287	100,139
227	Floor covering mills.....	14	3	466	2,447	410	824	1,836	5,063	(Z)	567	5,218
228	Yarn and thread mills.....	100	31	2,758	11,749	2,131	4,306	7,459	20,600	(Z)	2,398	19,224
229	Miscellaneous textile goods..	248	80	7,044	38,252	5,597	11,284	25,871	73,682	3,523	8,302	65,201
23	Apparel and related products..	14,308	5,443	340,422	1,382,968	288,884	516,911	1,026,117	2,623,809	34,451	361,638	2,316,898
231	Men's and boys' suits and coats.....	419	206	24,267	108,495	20,855	36,723	84,327	194,631	1,221	24,935	156,994
232	Men's and boys' furnishings..	847	292	21,111	83,077	17,133	30,639	55,311	190,549	1,737	24,185	169,279
233	Women's and misses' outerwear	5,276	2,849	152,237	614,177	128,838	225,217	460,709	1,135,297	15,149	153,652	993,209
234	Women's and children's underwear.....	757	345	29,970	115,009	24,560	42,255	74,896	238,487	2,399	37,207	222,331
235	Millinery, hats and caps.....	750	216	12,994	52,792	11,310	20,362	42,364	86,733	692	15,826	100,340
236	Children's outerwear.....	853	430	26,384	96,459	22,711	40,254	70,185	188,734	2,245	31,029	183,135
237	Fur goods.....	1,387	84	8,332	51,992	6,905	17,121	42,170	99,539	1,072	8,452	86,709
238	Miscellaneous apparel.....	860	362	20,762	78,078	17,549	30,987	56,614	149,647	1,576	22,469	134,623
239	Fabricated textiles, n.e.c....	3,159	649	45,326	181,928	39,023	73,356	139,541	304,092	8,360	43,883	270,278
24	Lumber and wood products.....	758	143	10,595	51,240	8,763	17,287	38,323	91,312	3,484	10,450	80,048
242	Sawmills and planing mills...	51	14	814	3,160	662	1,266	2,451	5,587	(Z)	687	4,062
243	Millwork and related products	307	57	3,953	22,978	3,159	6,252	17,024	40,115	1,224	3,673	30,441
244	Wooden containers.....	85	15	1,283	5,562	1,113	2,150	4,271	10,057	612	1,354	7,482
249	Miscellaneous wood products..	309	56	4,429	19,331	3,731	7,435	14,397	35,152	1,096	4,718	38,004
25	Furniture and fixtures.....	1,659	369	28,622	147,090	23,387	47,369	108,378	252,018	6,445	29,960	220,738
251	Household furniture.....	977	219	17,277	81,665	14,306	27,795	60,836	141,634	3,594	18,737	130,293
252	Office furniture.....	78	26	2,382	11,578	1,978	3,969	8,560	21,849	707	2,351	18,833
254	Partitions and fixtures.....	372	97	6,440	39,643	5,364	11,840	30,051	62,168	1,626	5,985	49,452
259	Furniture and fixtures, n.e.c.....	214	26	2,663	14,243	1,955	3,993	9,023	26,587	600	2,244	17,122
26	Paper and allied products.....	1,035	485	52,633	300,375	41,475	93,100	203,798	545,637	33,802	53,309	475,808
262	Paper mills, except building...	15	6	1,648	11,599	1,312	2,783	8,422	29,117	2,949	1,818	23,634
263	Paperboard mills.....	31	21	2,648	18,797	2,198	5,639	14,778	36,338	6,900	2,801	41,095
264	Paper and paperboard products	575	215	22,372	123,917	16,857	41,805	79,015	239,382	12,414	21,095	187,190
265	Paperboard containers and boxes.....	404	238	25,563	143,592	20,779	42,168	99,624	234,794	11,431	26,905	218,383
266	Building paper and board mills.....	8	4	357	2,166	298	638	1,769	4,141	(Z)	617	4,946
27	Printing and publishing.....	6,373	1,247	167,872	1,136,185	89,240	167,963	545,278	2,528,882	73,961	171,269	1,935,390
271	Newspapers.....	370	86	27,847	202,308	16,870	26,052	107,960	334,915	8,667	31,596	292,714
272	Periodicals.....	692	140	29,548	229,761	2,235	4,568	15,290	780,242	14,220	29,978	502,057
273	Books.....	556	162	25,706	160,527	6,760	13,168	37,792	546,345	13,559	21,675	345,738
274	Miscellaneous publishing.....	422	49	7,292	45,689	2,031	4,044	11,474	91,090	2,153	6,495	82,993
275	Commercial printing.....	3,180	456	47,042	312,965	37,136	73,433	233,190	491,767	26,614	48,877	442,030
276	Manifold business forms.....	83	29	2,433	15,036	1,704	3,293	9,457	21,885	1,252	2,139	17,930
277	Greeting card manufacturing..	87	29	4,063	19,985	2,845	5,711	12,373	38,381	744	5,024	38,326
278	Bookbinding and related work.	464	147	13,383	66,033	11,726	22,484	53,072	103,776	3,467	13,545	89,108
279	Printing trades services.....	519	149	10,558	83,881	7,993	15,210	64,670	120,481	2,885	11,940	118,534
28	Chemicals and allied products..	1,878	599	100,253	676,088	61,588	125,370	352,973	2,488,532	117,581	99,182	1,844,563
281	Basic chemicals.....	259	116	19,904	144,770	13,265	27,272	87,849	424,032	43,024	19,751	314,921
282	Fibers, plastics, rubbers....	121	40	6,801	48,933	4,204	8,817	24,993	139,158	9,047	7,109	85,621
283	Drugs.....	271	97	28,310	199,405	16,202	33,238	91,801	844,233	38,757	25,690	633,386
284	Cleaning and toilet goods....	554	145	25,953	154,120	16,153	32,134	82,252	755,229	14,945	23,745	543,337
285	Paints and allied products....	310	103	9,126	62,632	5,282	10,704	29,605	168,119	4,686	9,916	133,953
287	Agricultural chemicals.....	24	13	1,057	5,733	750	1,541	3,888	15,400	1,704	1,485	14,979
289	Miscellaneous chemical products.....	332	85	9,072	60,340	5,711	11,622	32,499	141,793	5,387	8,439	114,782
29	Petroleum and coal products....	113	46	6,940	55,124	4,763	9,502	35,151	199,487	9,858	8,485	85,762
291	Petroleum refining.....	16	9	4,003	34,453	2,714	5,124	21,658	134,067	6,577	5,605	46,539
295	Paving and roofing materials.	60	26	2,233	15,806	1,631	3,524	10,992	38,472	2,903	2,198	29,579
299	Petroleum and coal products, n.e.c.....	37	11	704	4,865	419	854	2,501	26,948	(Z)	682	12,644
30	Rubber and plastics products, n.e.c.....	1,021	400	37,579	183,653	30,555	60,393	126,268	355,568	29,920	28,004	223,339
306	Rubber products, n.e.c.....	134	56	9,262	50,013	6,808	13,150	33,037	91,832	3,434	8,813	74,990
307	Plastics products, n.e.c.....	876	341	27,538	130,246	23,078	45,996	90,800	257,099	26,205	18,932	145,506
31	Leather and leather products..	1,166	467	39,853	155,982	35,219	66,036	120,346	258,313	3,515	44,033	248,574
311	Leather tanning and finishing	101	23	1,918	11,209	1,662	3,453	8,593	21,367	520	2,410	21,866
313	Footwear out stock.....	58	11	735	2,946	626	1,246	2,205	5,359	(Z)	1,368	7,934
314	Footwear, except rubber.....	189	111	9,969	41,994	8,906	15,764	32,117	68,659	873	12,794	72,690
316	Luggage.....	144	63	4,936	17,263	4,369	8,126	13,685	29,263	(Z)	5,717	31,385
317	Purses and small leather goods.....	556	234	20,648	76,184	18,240	34,514	59,092	123,732	1,560	19,560	101,774
319	Leather goods, n.e.c.....	98	18	1,331	5,283	1,153	2,443	3,851	8,711	(Z)	1,952	11,710

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
NEW YORK-NORTHEASTERN NEW JERSEY SMSA—Continued (See footnotes at end of table 2 for SMSA description)												
32	Stone, clay and glass products..	906	262	24,971	153,091	19,035	39,517	104,981	307,815	26,543	24,450	246,478
322	Pressed and blown glassware..	27	6	1,631	9,073	1,478	3,098	7,593	18,771	7,287	719	8,939
323	Products of purchased glass..	223	48	3,908	17,752	3,241	6,398	12,699	31,928	1,165	3,850	28,077
326	Pottery and related products..	52	11	1,093	5,770	898	1,712	4,538	10,359	(2)	1,799	12,071
327	Concrete and plaster products	309	106	7,813	55,416	5,294	11,949	34,866	124,980	12,881	7,418	92,270
329	Cut stone and stone products..	67	11	692	3,844	544	1,001	2,903	6,395	(2)	840	8,202
329	Nonmetallic mineral products..	202	67	8,877	56,143	6,770	13,670	38,344	107,193	4,551	8,991	89,770
33	Primary metal industries.....	603	267	41,856	265,303	32,513	66,644	189,026	523,954	29,565	40,821	402,580
331	Steel rolling and finishing..	58	27	4,442	30,194	3,375	6,744	21,092	71,683	3,291	4,504	47,874
332	Iron and steel foundries.....	34	19	2,296	12,733	1,988	4,026	10,306	18,813	(2)	3,366	22,147
333	Primary nonferrous metal....	11	9	5,000	34,175	4,131	8,667	26,122	46,786	5,267	5,205	51,117
334	Secondary nonferrous metals..	80	23	2,687	16,350	1,961	3,946	10,342	74,323	2,805	2,274	17,975
335	Nonferrous rolling and drawing.....	131	85	18,903	122,298	14,174	29,283	84,464	228,853	15,178	18,209	207,896
336	Nonferrous foundries.....	189	69	6,375	37,903	5,288	10,828	25,563	58,352	1,827	5,601	40,181
339	Primary metal industries, n.e.c.....	100	35	2,153	12,650	1,596	3,150	8,137	25,144	866	1,662	15,390
34	Fabricated metal products....	3,581	1,023	95,848	556,073	75,015	154,732	384,818	988,963	37,398	93,657	815,746
341	Metal cans.....	35	22	7,201	50,363	6,211	13,413	41,378	101,128	6,663	7,896	81,987
342	Cutlery, hand tools, hardware	252	90	8,400	43,954	6,510	13,357	29,152	83,096	2,686	8,933	75,816
343	Plumbing and heating, except electric.....	132	41	4,024	22,142	2,808	5,552	12,774	46,424	1,520	3,684	32,620
344	Structural metal products....	1,143	329	27,616	168,245	20,881	42,457	114,241	281,790	7,388	27,145	254,188
345	Screw machine products.....	270	83	8,576	54,813	6,568	15,164	37,561	102,124	4,973	7,611	66,165
346	Metal stampings.....	392	131	11,657	65,195	9,617	19,372	46,022	108,652	3,600	11,641	91,963
347	Metal services, n.e.c.....	711	125	8,378	42,646	7,508	15,252	32,030	69,850	3,141	8,781	57,561
348	Fabricated wire products, n.e.c.....	249	69	5,969	29,890	4,870	9,695	21,320	53,067	1,568	5,814	43,497
349	Fabricated metal products, n.e.c.....	397	133	13,527	78,825	10,042	20,470	50,340	142,832	5,859	12,152	111,949
35	Machinery, except electrical..	3,278	653	80,578	535,581	58,353	122,046	351,654	979,542	31,417	78,226	709,573
353	Construction and like equipment.....	114	41	9,393	68,372	5,884	12,306	40,125	160,878	2,320	7,676	112,809
354	Metalworking machinery.....	881	144	11,697	77,405	9,290	19,851	56,401	122,122	6,349	12,152	99,332
355	Special industry machinery..	494	138	19,067	132,190	13,644	28,470	86,459	232,003	5,484	19,954	178,673
356	General industrial machinery	386	98	15,367	105,210	11,138	23,267	70,179	186,155	7,497	14,256	125,223
357	Office machines, n.e.c.....	74	32	7,087	43,992	4,584	9,513	22,948	85,533	2,131	5,026	38,638
358	Service industry machines..	229	71	6,993	42,946	4,559	9,765	25,886	85,089	1,922	7,225	62,750
359	Miscellaneous machinery.....	1,085	126	10,564	63,496	8,662	18,311	48,489	103,079	5,615	11,769	90,857
36	Electrical machinery.....	2,093	875	178,802	1,097,830	123,013	241,682	632,513	1,756,925	65,203	149,113	1,156,273
361	Electric distribution products.....	204	94	14,637	88,840	10,533	20,334	53,641	151,241	4,872	17,888	144,822
362	Electric industrial apparatus	162	62	8,092	44,739	5,656	11,335	26,574	78,299	2,876	9,952	71,306
363	Household appliances.....	146	49	9,628	43,980	7,639	15,363	38,781	94,647	2,612	9,995	66,840
364	Lighting and wiring devices..	549	202	26,787	139,816	20,951	40,847	93,200	272,015	8,815	24,465	196,326
365	Radi and TV receiving equipment.....	226	72	11,637	61,206	8,934	16,852	38,342	127,230	4,141	11,307	85,298
366	Communication equipment....	229	127	64,053	467,692	37,077	73,775	238,969	647,344	26,018	33,144	274,745
367	Electronic components.....	420	200	35,260	196,009	25,469	49,741	113,275	295,719	13,641	34,404	253,055
369	Electrical products, n.e.c....	156	68	8,708	44,498	6,754	13,435	29,731	90,430	2,228	7,958	63,881
37	Transportation equipment.....	440	180	87,361	666,605	58,409	122,649	402,576	1,297,995	54,798	89,765	965,531
371	Motor vehicles and equipment	141	51	19,309	150,041	15,395	35,626	113,667	502,587	24,852	20,339	317,713
372	Aircraft and parts.....	123	72	59,140	461,192	35,616	73,110	245,525	710,919	28,525	57,948	562,292
373	Ship and boat building.....	151	51	7,638	48,199	6,361	11,948	38,856	73,210	1,097	10,387	75,285
38	Instruments and related products.....	934	286	58,051	393,135	37,534	74,706	210,045	681,431	26,089	58,548	540,955
381	Scientific instruments.....	109	48	21,865	164,189	12,682	25,410	84,844	251,932	6,899	25,804	216,963
382	Mechanical measuring devices	129	43	6,378	39,532	4,498	8,334	25,048	67,344	1,618	5,809	50,778
383	Optical instruments and lenses.....	54	13	1,071	6,727	807	1,586	4,402	12,023	516	643	4,738
384	Medical instruments and supplies.....	248	55	11,372	77,688	6,839	13,847	35,070	149,654	7,973	10,568	118,500
385	Ophthalmic goods.....	121	39	3,570	15,089	3,034	6,021	10,873	26,456	8,951	3,200	22,359
386	Photographic equipment.....	154	43	7,454	50,824	5,011	9,725	27,594	101,665	6,633	7,327	80,299
387	Watches, clocks, and watchcases.....	121	45	6,341	39,086	4,663	9,283	22,214	72,357	1,755	5,197	47,768
39	Miscellaneous manufacturing, including ordnance.....	4,598	1,134	106,635	477,317	87,692	169,754	335,578	887,909	33,579	125,442	945,641
391	Jewelry and silverware.....	1,169	153	14,094	77,400	10,581	21,331	50,344	139,204	1,995	13,367	111,820
393	Musical instruments and parts	58	19	2,154	9,358	1,706	3,010	7,154	15,870	915	1,568	13,762
394	Toys and sporting goods.....	659	268	30,405	114,480	26,339	50,551	84,384	241,566	16,592	29,280	212,221
395	Pens, pencils and office supplies.....	243	84	8,654	39,743	6,579	13,098	24,564	69,074	2,509	7,590	52,252
396	Costume jewelry and notions..	1,003	233	19,889	77,075	16,878	32,201	56,292	143,821	4,549	21,571	128,919
398												
399	Miscellaneous manufactures ³ ..	1,467	378	31,789	160,333	25,922	50,114	114,206	280,748	7,194	52,066	426,667
190												
--	Administrative and auxiliary ⁴ ..	-	-	144,435	1,346,127	-	-	-	-	-	135,075	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ROCHESTER SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	1,188	406	121,359	837,147	80,753	160,875	470,895	1,756,139	86,796	11,717	1,174,614
20	Food and kindred products.....	220	90	12,618	59,298	9,678	20,222	40,756	171,515	7,205	12,945	139,816
201	Meat products.....	17	8	1,238	7,913	927	2,058	5,332	14,293	659	1,183	11,275
202	Dairies.....	60	17	1,351	6,856	580	1,156	2,726	14,714	844	1,439	12,726
203	Canned and frozen foods.....	52	34	6,921	27,841	6,207	12,902	23,444	99,674	4,397	7,597	75,277
205	Bakery products.....	32	11	699	3,537	423	873	2,103	6,258	(Z)	780	6,125
208	Beverages.....	27	9	1,337	8,772	678	1,458	3,973	25,472	1,434	1,619	26,107
209	Miscellaneous foods and kindred products.....	21	8	497	2,163	374	742	1,480	7,159	(Z)	533	6,521
23	Apparel and related products... Men's and boys' suits and coats.....	34	16	8,123	35,110	7,062	12,565	27,643	57,053	(Z)	2,234	47,495
24	Lumber and wood products.....	41	8	448	2,075	357	682	1,428	3,466	(Z)	414	2,777
25	Furniture and fixtures.....	30	10	1,106	6,513	819	1,586	4,062	10,567	559	1,259	12,565
251	Household furniture.....	12	4	284	1,765	229	459	1,097	2,599	(Z)	630	3,945
26	Paper and allied products..... Paperboard containers and boxes.....	40	18	2,477	14,958	1,585	3,252	7,287	22,127	2,051	3,312	27,950
265	Paperboard containers and boxes.....	17	11	1,039	5,244	815	1,708	3,738	3,050	966	(D)	(D)
27	Printing and publishing..... Commercial printing.....	190	36	5,263	34,633	3,277	6,271	20,382	62,004	2,157	5,294	43,243
275	Commercial printing.....	108	18	2,246	16,202	1,662	3,287	10,797	26,717	1,266	2,517	22,658
28	Chemicals and allied products..	49	14	1,762	11,438	856	1,704	3,946	41,538	3,429	1,204	22,358
30	Rubber and plastics products, n.e.c.....	23	9	2,153	11,406	1,668	3,151	7,386	22,646	823	(D)	(D)
31	Leather and leather products... Stone, clay and glass products.. Concrete and plaster products..	12	3	438	1,716	365	643	1,179	2,373	(Z)	(D)	(D)
32	Stone, clay and glass products..	57	15	1,371	8,312	1,061	2,216	5,840	19,187	702	976	3,882
327	Concrete and plaster products..	39	10	524	3,472	336	749	1,992	6,868	(Z)	454	4,642
34	Fabricated metal products..... Cutlery, hand tools, hardware.. Structural metal products... Screw machine products.....	116	45	4,555	27,268	3,473	7,159	18,234	46,439	1,864	5,029	41,127
342	Cutlery, hand tools, hardware..	10	7	948	5,123	651	1,221	2,925	8,218	(Z)	1,162	9,662
344	Structural metal products...	38	12	1,515	9,469	1,095	2,294	6,275	13,114	(Z)	2,172	11,099
345	Screw machine products.....	27	11	749	4,390	620	1,456	3,032	6,943	(Z)	430	3,603
35	Machinery, except electrical... Metalworking machinery..... Special industry machinery... General industrial machinery... Miscellaneous machinery.....	180	51	10,272	70,351	7,168	14,951	44,876	131,065	4,773	8,892	80,245
354	Metalworking machinery.....	76	21	4,549	34,608	3,403	7,224	24,124	53,940	2,754	3,803	29,445
355	Special industry machinery...	22	9	1,526	10,778	339	1,636	5,093	19,717	636	1,414	13,510
356	General industrial machinery...	23	6	888	6,097	479	962	2,688	8,505	(Z)	921	8,573
359	Miscellaneous machinery.....	37	2	252	1,373	208	429	1,088	2,217	(Z)	377	2,195
36	Electrical machinery..... Electronic components.....	42	25	15,997	108,135	11,943	23,866	74,398	188,591	5,974	14,219	114,321
367	Electronic components.....	10	7	1,066	5,274	866	1,715	3,539	13,316	553	924	9,151
38	Instruments and related products.....	57	29	41,591	343,137	25,281	49,725	177,658	820,004	53,690	39,560	544,432
39	Miscellaneous manufacturing, including ordnance ³	54	18	2,712	13,862	1,950	3,810	8,918	28,470	925	3,412	24,420
398	Miscellaneous manufactures ³ ..	32	9	744	3,738	593	1,201	2,783	7,769	505	1,667	10,153
399												
190												
--	Administrative and auxiliary ⁴ ..	-	-	5,118	52,605	-	-	-	-	-	3,405	-
SYRACUSE SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	753	272	65,719	411,364	40,673	81,967	225,915	777,072	38,153	69,514	679,910
20	Food and kindred products.....	116	46	5,409	30,234	3,519	7,222	18,578	96,966	3,210	5,718	71,821
201	Meat products.....	12	5	277	1,589	197	429	1,044	2,623	(Z)	270	2,096
202	Dairies.....	37	16	1,143	6,396	487	1,104	2,789	17,352	560	1,463	11,433
205	Bakery products.....	24	9	1,234	7,012	758	1,554	4,142	13,735	(Z)	1,352	12,036
209	Miscellaneous foods and kindred products.....	13	5	548	3,147	387	774	2,041	14,013	740	430	3,558
22	Textile mill products.....	8	5	640	3,155	548	1,043	2,408	4,138	645	770	4,033
23	Apparel and related products... Lumber and wood products.....	17	3	848	2,675	774	1,158	2,209	3,522	(Z)	924	3,112
24	Lumber and wood products.....	49	10	561	2,416	467	920	1,796	3,770	(Z)	506	3,024
25	Furniture and fixtures..... Household furniture.....	30	5	336	1,468	260	527	1,100	2,066	(Z)	715	3,161
251	Household furniture.....	16	4	254	962	203	409	744	1,399	(Z)	444	2,434
26	Paper and allied products..... Paperboard containers and boxes.....	27	21	4,216	24,487	3,188	6,304	15,810	35,281	2,577	5,083	33,553
265	Paperboard containers and boxes.....	13	11	2,970	16,962	2,224	4,215	10,452	23,071	1,283	3,464	21,737
27	Printing and publishing..... Newspapers..... Commercial printing.....	108	27	2,604	14,668	1,620	3,116	8,983	34,993	1,243	2,300	23,249
271	Newspapers.....	23	6	775	4,225	467	866	2,537	11,270	(Z)	1,070	12,587
275	Commercial printing.....	52	7	454	2,922	350	682	2,139	4,719	553	477	3,905
28	Chemicals and allied products..	32	8	3,903	23,094	2,694	5,853	17,034	86,672	4,014	3,720	58,709
32	Stone, clay and glass products..	34	15	2,308	11,534	1,874	3,620	8,373	20,761	1,061	2,342	17,270
327	Concrete and plaster products..	22	8	469	2,437	340	738	1,612	7,421	698	393	3,620

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1958 AND 1963—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new*	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
SYRACUSE SMSA—Continued (See footnotes at end of table 2 for SMSA description)												
33	Primary metal industries.....	35	22	4,650	30,447	3,790	7,780	23,721	52,927	4,706	4,258	31,765
332	Iron and steel foundries.....	8	6	635	3,264	551	1,078	2,778	4,514	(Z)	784	4,331
336	Nonferrous foundries.....	12	9	1,148	6,760	929	1,885	5,091	9,800	(Z)	1,062	6,709
34	Fabricated metal products....	88	32	2,876	17,199	2,124	4,239	11,438	29,963	915	3,095	25,981
344	Structural metal products...	34	15	1,295	7,924	949	1,868	5,201	11,786	(Z)	1,621	12,518
35	Machinery, except electrical..	120	36	9,269	62,939	5,869	12,093	37,079	120,561	6,517	13,076	126,058
354	Metalworking machinery.....	39	11	1,188	7,696	838	1,740	5,137	14,609	(Z)	1,698	12,907
356	General industrial machinery	23	11	1,506	9,176	1,147	2,440	6,362	15,254	2,101	1,097	9,342
36	Electrical machinery.....	22	15	19,749	126,287	8,739	17,049	47,083	212,352	4,937	17,640	230,294
37	Transportation equipment.....	10	5	3,584	26,979	2,829	6,316	20,436	45,900	6,609	3,474	24,761
39	Miscellaneous manufacturing, including ordnance ³	23	8	1,337	6,693	939	1,934	4,068	12,488	(Z)	1,350	11,157
398	Miscellaneous manufactures ³ .	17	6	1,255	6,363	872	1,809	3,819	12,033	(Z)	1,282	10,827
399												
190												
--	Administrative and auxiliary ⁴ .	-	-	1,688	13,624	-	-	-	-	-	2,867	-
UTICA-ROME SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	462	166	37,934	214,331	26,813	53,857	130,668	446,192	15,605	40,562	344,834
20	Food and kindred products....	97	27	1,995	9,802	1,321	2,768	6,043	31,746	1,668	2,389	26,692
201	Meat products.....	13	5	322	1,867	242	498	1,153	4,420	(Z)	449	5,845
202	Dairies.....	45	10	677	3,280	347	732	1,579	7,745	640	768	5,636
208	Beverages.....	11	5	362	1,946	273	636	1,429	8,978	610	485	6,755
22	Textile mill products.....	13	8	1,152	4,865	1,007	2,064	3,675	7,759	(Z)	1,708	10,612
225	Knitting mills.....	8	5	699	2,424	604	1,203	1,809	3,653	(Z)	909	4,713
23	Apparel and related products..	22	16	1,861	5,930	1,707	2,900	4,992	7,850	(Z)	1,762	5,814
24	Lumber and wood products.....	31	5	482	1,980	419	865	1,580	3,261	(Z)	589	3,498
25	Furniture and fixtures.....	18	7	965	4,495	781	1,611	3,381	7,500	(Z)	1,038	9,527
26	Paper and allied products....	17	13	1,303	7,438	1,085	2,377	5,916	13,858	1,666	1,032	12,572
27	Printing and publishing.....	52	11	912	4,945	573	1,023	2,824	8,866	(Z)	848	7,144
271	Newspapers.....	11	4	591	3,292	318	523	1,629	6,113	(Z)	522	5,032
275	Commercial printing.....	29	7	274	1,348	226	445	1,004	2,293	(Z)	200	1,268
28	Chemicals and allied products.	12	3	860	4,275	719	1,427	3,272	7,962	(Z)	745	6,686
33	Primary metal industries.....	16	14	4,546	28,881	3,339	6,742	19,035	53,163	2,800	6,282	51,768
34	Fabricated metal products....	34	15	2,453	13,723	1,939	3,790	9,916	20,083	(Z)	3,249	24,656
35	Machinery, except electrical..	46	12	6,288	38,689	4,199	8,978	23,471	120,317	3,507	5,464	44,212
37	Transportation equipment.....	8	4	2,095	12,205	1,481	2,733	7,882	32,647	726	2,734	23,152
39	Miscellaneous manufacturing, including ordnance ³	29	7	3,482	19,543	2,761	5,536	14,704	38,210	1,505	3,728	31,491
394	Toys and sporting goods....	13	6	514	2,254	344	675	1,325	4,304	(Z)	670	4,942
--	Administrative and auxiliary ⁴ .	-	-	268	2,509	-	-	-	-	-	311	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES

MC63(P)-S34



preliminary
report

NORTH CAROLINA

Area series

Value added by manufacturing in 1963 in the State of North Carolina amounted to \$4,618 million, an increase of 9 percent from 1962 and 50 percent from 1958. Of this total, \$1,427 million was contributed by the Textile Mill Industry, the leading industry group in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufactures (\$1,000)	Capital expenditures, new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	7,760	2,936	550,794	2,087,382	444,934	891,529	1,526,070	4,617,912	294,736	115	150
1962.....	(NA)	(NA)	509,941	1,919,946	431,594	860,481	1,427,899	4,248,345	294,191	110	138
1961.....	(NA)	(NA)	495,306	1,776,443	417,605	816,940	1,306,828	3,894,185	227,279	107	126
1960.....	(NA)	(NA)	499,996	1,751,396	423,755	827,647	1,293,876	3,804,579	240,291	108	123
1959.....	(NA)	(NA)	490,147	1,675,963	416,652	825,855	1,259,885	3,577,016	236,894	106	116
1958.....	7,289	2,629	462,379	1,489,853	392,147	747,876	1,111,075	3,083,448	191,292	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

March 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

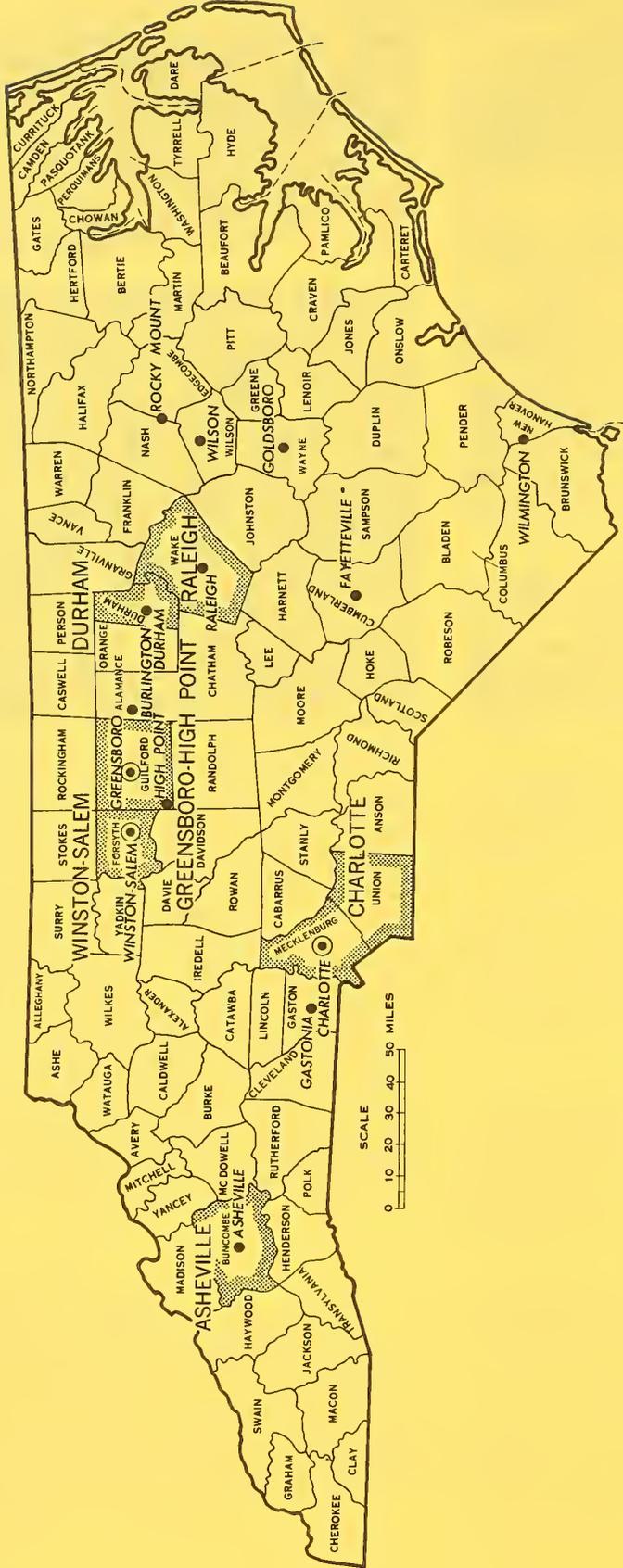
The requirement that each SMSA consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



NORTH CAROLINA

- Incorporated places of 100,000 and over
- Incorporated places of 25,000-100,000
- ▨ Standard Metropolitan Statistical Areas



Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NORTH CAROLINA, TOTAL.....	7,760	2,956	530,794	2,087,582	444,954	891,529	1,526,070	4,617,912	294,756	462,379	3,083,448
STANDARD METROPOLITAN STATISTICAL AREAS											
Asheville ⁴	167	65	16,737	71,267	12,765	26,017	48,237	148,352	9,141	12,175	71,344
Charlotte ⁵	626	251	32,446	151,566	22,245	46,422	86,855	279,049	16,234	27,621	197,293
Durham ⁶	120	48	12,770	59,252	9,729	18,978	41,441	217,402	7,475	12,638	205,930
Greensboro-High Point ⁷	627	289	45,788	194,451	35,518	69,381	121,321	417,311	17,871	41,873	315,167
Raleigh ⁸	196	65	8,229	38,128	6,169	12,399	21,424	88,979	5,619	7,256	50,357
Winston-Salem ⁹	209	85	37,072	186,492	28,207	54,841	118,457	645,275	19,404	35,791	434,374
COUNTIES ¹											
Alamance.....	210	107	19,648	79,768	15,994	31,834	54,687	145,946	5,427	19,065	123,759
Alexander.....	56	20	2,614	8,215	2,424	4,826	7,222	15,194	853	1,258	4,796
Anson.....	52	9	1,971	6,581	1,853	3,672	5,571	11,808	928	1,552	6,738
Ashe.....	57	8	1,919	5,695	1,839	3,444	5,199	13,289	(Z)	1,028	5,310
Avery.....	21	3	501	1,383	461	910	1,237	3,556	(Z)	359	1,809
Beaufort.....	61	15	1,929	5,807	1,686	3,583	4,706	12,366	1,023	1,371	8,472
Bertie.....	45	13	915	2,399	807	1,518	2,040	4,513	(Z)	794	3,952
Bladen.....	67	11	1,342	3,378	1,213	2,279	2,905	5,425	754	1,512	3,887
Brunswick.....	27	6	544	1,843	458	908	1,410	4,106	(Z)	687	5,246
Buncombe.....	167	65	16,737	71,267	12,765	26,017	48,237	148,352	9,141	12,175	71,344
Burke.....	115	56	12,455	44,882	10,890	20,919	35,279	86,639	4,726	9,487	52,627
Cabarrus.....	76	40	23,020	83,807	21,364	43,672	74,957	171,993	11,993	21,943	90,571
Caldwell.....	124	59	11,356	42,914	10,333	21,653	35,899	80,762	4,922	10,105	47,001
Carteret.....	46	8	940	2,962	836	1,558	2,403	5,158	(Z)	1,085	6,587
Catawba.....	420	187	21,380	74,997	19,045	37,762	60,460	149,381	7,805	18,414	95,989
Chatham.....	86	28	4,001	13,503	3,483	6,894	10,664	24,271	831	2,919	14,884
Cherokee.....	27	13	1,161	3,468	1,074	2,060	3,006	7,668	(Z)	3,513	7,668
Chowan.....	24	6	551	1,717	490	954	1,429	3,704	(Z)	544	1,752
Cleveland.....	128	58	11,020	41,855	9,622	19,725	32,791	94,893	14,852	7,868	37,235
Columbus.....	62	25	3,725	16,042	3,149	6,109	11,915	33,597	3,745	2,195	16,411
Craven.....	77	21	1,950	6,828	1,574	3,433	5,045	14,304	1,278	2,004	11,327
Cumberland.....	92	35	3,867	14,953	3,164	6,970	10,522	28,471	2,184	3,577	20,710
Davidson.....	258	97	17,120	58,050	15,123	29,475	46,365	112,136	5,753	15,968	74,821
Davie.....	43	11	2,498	8,581	2,289	4,668	7,300	15,322	1,608	1,922	10,118
Duplin.....	49	13	1,891	6,393	1,665	3,408	5,352	15,588	782	1,251	5,414
Durham.....	120	48	12,770	59,252	9,729	18,978	41,441	217,402	7,475	12,638	205,930
Edgecombe.....	54	18	3,227	12,583	2,821	5,826	9,019	20,666	1,197	2,387	9,327
Forsyth.....	209	83	37,072	186,492	28,207	54,841	118,457	645,275	19,404	35,791	434,374
Franklin.....	37	8	961	3,314	848	1,789	2,817	6,711	1,103	1,084	4,499
Gaston.....	290	159	30,360	115,134	26,924	55,633	91,058	246,071	18,694	27,805	157,781
Granville.....	30	13	2,109	7,641	1,844	3,907	5,917	14,601	689	1,294	5,655
Guilford.....	627	289	45,788	194,451	35,518	69,381	121,321	417,311	17,871	41,873	315,167
Halifax.....	90	24	5,740	23,216	4,987	10,325	18,783	42,936	2,642	4,659	25,954
Harnett.....	49	14	2,906	4,473	2,585	4,965	7,320	20,855	1,700	2,730	15,513
Haywood.....	36	13	4,810	28,271	3,650	8,040	19,755	64,289	2,705	5,219	39,969
Henderson.....	54	25	4,366	17,808	3,573	6,995	12,710	37,068	3,859	3,322	22,110
Hertford.....	44	16	1,569	5,363	1,427	2,843	4,557	9,511	(Z)	1,211	4,438
Hoke.....	10	7	1,717	6,805	1,526	3,252	5,677	18,947	1,108	1,805	9,224
Iredell.....	158	84	14,054	52,113	12,444	25,750	40,971	100,957	5,141	11,154	66,220
Jackson.....	24	7	1,053	3,665	938	1,780	3,072	8,355	(Z)	643	4,738
Johnston.....	81	22	3,971	12,005	3,465	6,853	9,205	15,963	981	2,801	10,541
Lee.....	76	23	5,050	16,662	4,449	8,489	13,003	33,050	2,474	3,922	18,016
Lenoir.....	52	21	4,600	24,991	3,356	6,532	13,992	95,696	10,206	4,505	63,332
Lincoln.....	63	26	3,696	11,557	3,401	6,643	9,829	24,252	938	2,626	8,688
McDowell.....	50	24	5,495	19,562	5,022	10,202	16,845	45,247	2,282	5,208	32,391
Macon.....	29	4	624	1,943	537	1,053	1,626	3,137	(Z)	762	3,943
Madison.....	15	3	639	2,465	532	1,093	1,609	4,491	(Z)	446	2,265
Martin.....	44	15	2,365	11,070	2,018	4,049	8,866	32,169	2,808	2,196	14,938
Mecklenburg.....	541	199	29,154	140,140	20,016	40,975	78,451	259,579	14,504	25,369	187,019
Mitchell.....	31	10	991	2,617	935	1,661	2,310	3,610	657	705	2,823
Montgomery.....	92	29	4,320	12,665	3,839	7,171	10,226	32,369	852	4,000	16,648
Moore.....	73	24	3,280	11,165	2,742	5,324	8,341	24,164	1,092	1,199	11,199
Nash.....	82	33	4,723	17,518	3,866	7,829	12,174	33,091	1,965	4,159	30,097
New Hanover.....	106	39	5,779	21,920	4,806	9,694	16,231	42,005	1,952	4,963	24,725
Northampton.....	43	13	1,186	3,480	1,070	2,158	3,033	7,434	(Z)	1,067	3,550
Onslow.....	23	4	278	875	225	446	611	1,382	(Z)	211	707
Orange.....	39	9	1,078	3,649	920	1,880	2,874	7,397	938	1,356	6,669
Pamlico.....	18	3	250	422	231	421	378	801	(Z)	100	221
Pasquotank.....	39	14	2,554	9,436	2,029	3,957	6,502	12,718	564	1,631	7,403
Pender.....	29	5	320	718	276	524	602	1,575	(Z)	402	547

See footnotes at end of table.

Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958--Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ --Continued											
Perquimans.....	13	2	260	561	245	449	504	729	(2)	193	512
Person.....	42	11	2,726	10,078	2,325	4,751	7,734	15,371	2,505	2,462	10,882
Pitt.....	70	26	2,286	9,105	1,834	4,121	6,248	19,121	2,164	1,732	10,152
Polk.....	26	9	909	3,065	753	1,484	2,195	6,605	(2)	1,182	4,539
Randolph.....	200	69	13,365	46,897	11,907	22,889	37,397	102,506	6,329	12,425	76,672
Richmond.....	67	24	4,496	16,234	4,147	8,276	14,311	31,060	2,826	3,333	17,585
Robeson.....	42	36	3,877	12,982	3,398	7,296	10,664	51,690	2,414	2,942	15,213
Rockingham.....	85	39	11,265	45,829	9,768	19,581	36,116	158,503	10,885	11,150	118,452
Rowan.....	134	62	8,857	32,947	7,614	15,322	25,243	58,115	3,097	7,616	38,668
Rutherford.....	87	32	7,247	26,788	6,492	13,835	22,049	40,426	6,995	7,050	31,172
Sampson.....	75	25	2,158	6,463	1,913	3,737	5,307	10,660	717	1,738	6,673
Scotland.....	30	15	3,412	11,818	3,196	6,760	10,250	20,483	1,440	2,972	12,238
Stanly.....	82	32	7,888	28,592	6,941	14,038	22,909	43,267	21,767	6,616	37,405
Stokes.....	24	9	1,130	3,565	981	1,778	2,801	8,178	3,018	429	1,760
Surry.....	101	43	10,784	38,681	9,838	19,596	31,169	62,138	1,758	9,381	40,376
Swain.....	13	7	687	2,122	599	1,136	1,646	4,254	(2)	295	1,389
Transylvania.....	20	6	3,699	21,129	2,356	5,174	12,184	45,344	6,765	2,885	28,354
Union.....	85	32	3,292	11,446	2,827	5,447	8,404	19,470	1,730	2,322	10,274
Vance.....	35	18	2,189	7,965	1,951	4,110	6,264	16,062	1,211	2,117	9,776
Wake.....	196	65	8,829	38,128	6,169	12,399	21,424	88,979	5,619	7,256	50,357
Warren.....	36	6	843	2,241	755	1,417	1,801	3,165	(2)	698	2,045
Washington.....	18	4	337	1,154	300	634	977	2,335	(2)	511	1,681
Watauga.....	30	4	907	3,604	808	1,432	2,985	6,164	764	265	1,791
Wayne.....	87	27	3,158	11,620	2,613	5,248	7,686	23,671	1,604	2,598	16,208
Wilkes.....	116	26	4,506	13,745	4,085	8,029	11,552	21,762	1,658	3,444	15,685
Wilson.....	67	34	3,962	13,976	3,299	6,499	10,136	26,265	1,435	3,227	20,028
Yadkin.....	33	3	347	1,096	274	530	730	1,917	(2)	305	1,409
Yancey.....	19	7	695	2,442	619	1,270	2,058	4,034	(2)	608	2,438

(2) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Asheville Standard Metropolitan Statistical Area is coterminous with Buncombe County, N.C.⁵The Charlotte Standard Metropolitan Statistical Area consists of Mecklenburg and Union Counties, N.C.⁶The Durham Standard Metropolitan Statistical Area is coterminous with Durham County, N.C.⁷The Greensboro-High Point Standard Metropolitan Statistical Area is coterminous with Guilford County, N.C.⁸The Raleigh Standard Metropolitan Statistical Area is coterminous with Wake County, N.C.⁹The Winston-Salem Standard Metropolitan Statistical Area is coterminous with Forsyth County, N.C.

Table 3.--GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	7,760	2,936	530,794	2,087,382	444,934	891,529	1,526,070	4,617,912	294,736	462,379	3,083,448
20	Food and kindred products.....	864	344	32,487	127,291	19,161	38,650	59,347	328,381	19,960	29,943	235,207
201	Meat products.....	173	65	7,540	22,068	6,386	11,632	16,335	56,322	2,590	5,824	28,160
202	Dairies.....	65	42	4,875	20,351	1,746	4,118	6,786	59,042	2,906	5,006	46,638
203	Canned and frozen foods.....	58	24	2,078	5,994	1,894	3,336	4,280	20,989	1,010	1,289	7,268
207	Candy and related products..	17	7	420	1,151	318	506	770	3,627	(2)	260	1,277
208	Beverages.....	131	85	4,641	21,513	1,503	3,478	5,358	51,913	4,733	4,382	34,886
209	Miscellaneous foods and kindred products.....	134	34	2,277	9,194	1,360	3,046	4,602	22,273	2,267	2,457	18,506
21	Tobacco manufactures:											
211	Cigarettes.....	5	5	19,507	99,557	17,488	34,337	86,535	792,533	14,333	17,701	604,165
214	Tobacco stemming and redrying.....	50	45	9,316	33,075	7,939	15,231	23,466	83,032	10,622	7,770	45,914
22	Textile mill products.....	1,193	870	219,740	784,039	202,381	407,313	669,960	1,426,885	106,429	211,124	1,012,404
221	Weaving mills, cotton.....	72	71	50,188	189,280	47,152	97,867	169,709	308,438	33,006	53,135	246,143
222	Weaving mills, synthetics..	60	57	31,295	128,957	28,090	61,148	107,540	234,092	8,378	29,173	158,587
223	Weaving, finishing mills, wool	8	6	3,762	15,206	3,360	6,939	12,789	31,646	1,647	1,967	19,381
224	Narrow fabric mills.....	33	24	2,524	9,340	2,272	4,541	7,447	17,487	1,315	1,926	10,834
225	Knitting mills.....	638	411	63,193	204,394	60,490	111,810	174,604	358,913	19,410	62,186	282,363
226	Textile finishing, except wool.....	62	44	10,664	44,479	8,764	18,336	31,874	82,258	7,220	8,149	41,778
228	Yarn and thread mills.....	233	214	49,228	166,302	46,178	94,075	145,072	329,892	29,618	47,586	220,365

See footnotes at end of table.

Table 3.--GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958--Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
23	Apparel and related products...	376	279	48,900	139,307	45,330	82,745	116,982	234,704	6,701	29,378	115,244
232	Men's and boys' furnishings...	90	85	19,044	52,336	17,869	32,026	45,180	82,725	1,555	10,958	35,151
233	Women's and misses' outerwear	72	61	7,309	19,796	6,714	11,849	16,245	29,940	682	3,397	12,190
234	Women's and children's underwear.....	58	49	9,207	26,061	8,473	15,574	21,175	50,201	879	6,285	27,785
236	Children's outerwear.....	29	25	3,778	10,982	3,508	6,371	9,205	16,071	(2)	2,734	9,595
239	Fabricated textiles, n.e.c....	101	28	6,346	20,980	5,808	11,273	16,600	42,357	2,891	4,166	20,555
24	Lumber and wood products.....	2,285	335	27,950	77,220	24,862	48,791	64,222	130,825	12,604	31,253	101,720
241	Logging camps and contractors	740	14	3,494	6,634	3,067	5,845	5,912	14,750	2,759	3,571	9,325
242	Sawmills and planing mills...	1,256	209	15,180	40,046	13,418	25,508	33,367	64,373	7,532	18,862	56,495
243	Millwork and related products	162	77	5,934	19,371	5,434	11,462	16,040	32,660	1,607	6,139	24,521
244	Wooden containers.....	31	7	1,159	3,460	1,055	2,068	2,894	5,376	(2)	1,432	5,619
249	Miscellaneous wood products..	94	28	2,185	7,709	1,888	3,769	6,049	13,666	618	1,249	5,762
25	Furniture and fixtures.....	538	290	48,092	178,535	43,294	89,940	146,244	334,375	14,147	39,615	210,457
251	Household furniture.....	464	260	44,472	164,015	40,178	83,139	135,413	308,678	12,910	35,914	190,413
252	Office furniture.....	11	8	1,460	5,649	1,277	2,797	4,285	12,359	645	1,052	6,388
253	Public building furniture....	19	9	1,440	5,481	1,240	2,657	4,141	8,620	(2)	1,785	8,200
254	Partitions and fixtures.....	23	11	585	3,000	496	1,196	2,125	4,214	(2)	713	4,602
26	Paper and allied products.....	95	65	12,880	74,374	10,211	22,472	54,379	169,805	14,162	10,867	102,679
264	Paper and paperboard products	28	16	1,000	4,392	821	1,841	3,181	9,564	674	458	3,823
265	Paperboard containers and boxes.....	55	38	3,594	16,551	2,874	6,332	11,881	32,188	1,593	2,988	21,025
27	Printing and publishing.....	568	113	10,258	49,346	6,847	13,480	30,097	84,278	5,081	8,825	62,663
271	Newspapers.....	166	57	5,362	26,751	3,049	5,789	14,501	45,948	2,276	4,677	34,249
275	Commercial printing.....	287	35	3,074	14,469	2,419	4,995	10,341	24,994	2,014	3,050	20,590
276	Manifold business forms....	11	5	430	2,160	518	670	1,337	3,925	(2)	160	1,586
278	Bookbinding and related work.	15	7	485	1,594	416	771	1,122	2,116	(2)	160	1,082
279	Printing trades services....	34	4	310	1,714	240	477	1,301	2,417	(2)	301	2,271
28	Chemicals and allied products.	244	78	14,706	80,120	9,704	19,340	42,851	272,473	29,260	11,111	150,565
284	Cleaning and toilet goods....	52	12	556	3,056	360	743	1,250	6,924	(2)	394	5,418
285	Paints and allied products....	23	6	684	4,381	452	766	1,604	9,232	(2)	484	5,213
287	Agricultural chemicals.....	71	32	2,061	7,885	1,382	2,723	4,282	23,170	1,764	2,018	12,448
30	Rubber and plastics products, n.e.c.....	56	24	3,170	13,740	2,553	5,197	9,991	31,344	1,244	1,900	18,078
306	Rubber products, n.e.c.....	14	5	1,593	7,595	1,272	2,512	5,627	19,297	(2)	1,548	14,740
31	Leather and leather products...	32	12	1,901	7,646	1,501	2,778	5,253	13,303	(2)	1,307	6,870
32	Stone, clay and glass products.	340	132	10,851	44,543	8,727	18,418	31,512	92,199	9,514	7,897	50,504
323	Products of purchased glass..	12	6	824	3,057	708	1,439	2,436	6,597	(2)	833	5,338
325	Structural clay products.....	33	31	2,947	11,054	2,079	4,667	7,902	19,014	1,740	2,296	14,500
327	Concrete and plaster products	227	69	3,888	15,603	2,780	6,067	9,414	33,451	4,823	3,064	20,849
328	Cut stone and stone products.	18	6	499	1,789	432	753	1,408	2,582	(2)	641	3,235
329	Nonmetallic mineral products.	33	15	1,435	5,793	1,244	2,499	4,382	10,461	693	909	5,753
33	Primary metal industries.....	62	27	3,487	18,053	2,884	5,981	13,116	42,875	20,605	2,720	23,303
332	Iron and steel foundries....	23	10	1,261	5,665	1,637	2,273	4,811	10,376	(2)	1,315	7,293
34	Fabricated metal products.....	271	80	9,219	44,878	7,318	15,587	29,852	80,946	6,579	6,320	43,895
342	Cutlery, hand tools, hardware	22	10	1,485	8,404	1,068	2,223	4,736	16,369	856	6,252	4,044
344	Structural metal products....	171	43	4,394	21,813	3,439	7,237	14,826	32,887	3,618	2,995	21,977
348	Fabricated wire products, n.e.c.....	18	10	1,101	3,742	981	1,977	2,928	5,459	(2)	856	4,294
349	Fabricated metal products, n.e.c.....	15	6	605	3,007	446	912	1,714	5,135	735	464	2,371
35	Machinery, except electrical...	409	116	11,717	55,438	9,020	18,865	35,703	114,895	3,865	9,121	68,529
352	Farm machinery and equipment.	26	11	1,299	5,287	1,109	2,219	3,251	8,645	(2)	949	5,043
355	Special industry machinery...	145	67	6,952	33,470	5,201	11,056	20,786	73,491	2,289	5,013	37,779
356	General industrial machinery.	28	6	398	1,950	513	682	1,294	4,287	(2)	680	6,402
358	Service industry machines....	18	6	803	3,952	599	1,245	2,729	10,410	(2)	447	3,369
359	Miscellaneous machinery.....	137	17	1,119	5,092	944	1,936	4,001	8,142	(2)	1,050	7,181
36	Electrical machinery.....	84	47	23,121	117,862	16,429	33,424	70,313	278,895	13,107	13,846	143,130
361	Electric distribution products.....	8	4	2,147	10,902	1,572	3,286	6,377	41,020	(2)	1,696	24,600
363	Household appliances.....	11	5	2,067	7,839	1,822	3,620	6,289	17,878	1,339	1,061	11,169
367	Electronic components.....	16	13	3,567	13,455	3,055	6,107	10,251	33,100	1,689	2,714	15,666
37	Transportation equipment.....	93	30	4,775	22,477	3,692	7,799	16,129	37,713	2,811	2,344	15,791
371	Motor vehicles and equipment.	34	11	1,986	9,245	1,620	3,503	6,700	18,890	1,401	1,418	10,378
39	Miscellaneous manufacturing, including ordnance ³	144	31	4,161	20,046	3,059	6,046	11,227	32,877	861	9,602	46,117
396	Costume jewelry and notions..	16	4	501	1,680	454	881	1,373	4,664	(2)	188	1,500
--	Administrative and auxiliary ⁴ ..	-	-	10,948	83,490	-	-	-	-	-	6,912	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
GREENSBORO-HIGH POINT SMSA (Coextensive with Guilford County, N.C.)												
	All industries, total ²	627	289	45,788	194,451	35,518	69,381	121,321	417,311	17,871	41,873	315,167
20	Food and kindred products.....	48	30	3,046	13,064	1,581	3,364	5,545	26,998	1,113	2,633	19,410
201	Meat products.....	10	7	614	2,152	511	988	1,415	3,856	(Z)	462	2,328
202	Dairies.....	5	3	457	2,227	174	414	730	5,605	(Z)	510	4,103
205	Bakery products.....	11	9	1,069	4,632	495	1,107	1,951	8,902	(Z)	923	6,523
209	Miscellaneous foods and kindred products.....	9	3	343	1,534	137	300	472	3,618	(Z)	220	2,328
22	Textile mill products.....	73	49	14,239	48,237	13,047	24,231	39,984	76,230	6,113	15,400	74,073
225	Knitting mills.....	44	30	6,118	17,278	5,743	9,880	14,716	28,234	884	7,061	30,706
228	Yarn and thread mills.....	5	4	1,065	3,945	973	2,073	3,425	8,539	1,825	717	3,982
229	Miscellaneous textile goods..	7	2	300	1,132	269	517	912	2,268	(Z)	271	1,637
23	Apparel and related products...	25	17	4,200	12,331	3,791	6,902	9,818	20,814	(Z)	3,548	13,637
234	Women's and children's underwear.....	8	7	1,768	5,184	1,663	3,157	4,483	8,208	(Z)	1,063	4,660
24	Lumber and wood products.....	47	17	1,079	3,861	955	2,037	3,002	6,539	(Z)	1,065	6,474
242	Sawmills and planing mills...	19	7	370	1,175	334	704	957	1,965	(Z)	413	1,637
243	Millwork and related products	16	9	620	2,356	546	1,189	1,804	3,976	(Z)	461	3,555
25	Furniture and fixtures.....	132	70	7,056	27,876	5,930	12,108	20,261	52,575	1,910	6,470	39,326
251	Household furniture.....	116	62	5,918	22,982	4,955	9,998	16,912	41,009	1,362	5,568	33,635
26	Paper and allied products.....	19	12	1,182	5,504	968	2,186	4,076	13,182	(Z)	818	7,290
27	Printing and publishing.....	71	13	1,372	6,545	940	1,769	3,883	10,558	(Z)	1,059	8,333
275	Commercial printing.....	40	4	341	1,537	282	559	1,175	2,687	(Z)	392	3,232
278	Bookbinding and related work.	7	5	373	1,172	319	594	826	1,539	(Z)	117	872
28	Chemicals and allied products..	35	15	1,467	8,535	1,022	1,943	4,073	44,590	993	1,137	23,535
285	Paints and allied products...	7	4	507	3,417	362	587	1,278	7,336	(Z)	389	4,374
32	Stone, clay and glass products.	19	12	891	4,440	676	1,530	2,654	8,836	763	945	5,777
327	Concrete and plaster products	10	7	351	1,692	260	612	1,053	3,014	(Z)	408	2,545
34	Fabricated metal products.....	51	20	1,789	7,960	1,450	3,044	5,468	11,523	914	1,414	10,007
342	Cutlery, hand tools, hardware	9	2	277	940	220	448	683	1,464	(Z)	138	1,163
344	Structural metal products...	18	6	621	3,525	445	1,001	2,151	4,916	583	589	4,800
348	Fabricated wire products, n.e.c.....	10	6	583	2,180	527	1,048	1,668	3,368	(Z)	496	2,910
39	Miscellaneous manufacturing...	22	6	308	1,135	247	463	707	2,127	(Z)	259	1,725
--	Administrative and auxiliary ³ ..	-	-	2,942	23,295	-	-	-	-	-	1,758	-

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

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

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U.S. DEPARTMENT OF COMMERCE

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES

MC63(P)-S35



preliminary
report

Area series

NORTH DAKOTA

Value added by manufacturing in 1963 in the State of North Dakota amounted to \$72 million, an increase of 31 percent from 1962 and 16 percent from 1958. Of this total, \$34 million was contributed by the food and kindred products industries and \$11 million by the printing and publishing industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	458	79	6,478	31,035	4,465	9,186	19,345	72,484	7,933	102	116
1962 ³	(NA)	(NA)	6,013	26,532	4,295	8,698	16,841	55,394	(2,770)	95	88
1961 ³	(NA)	(NA)	6,024	26,000	4,290	8,804	16,248	61,172	3,727	95	98
1960 ³	(NA)	(NA)	5,975	25,122	4,235	8,472	15,752	59,586	2,416	94	95
1959 ³	(NA)	(NA)	6,209	26,514	4,322	8,801	17,066	59,196	2,668	98	94
1958.....	405	79	6,324	26,198	4,398	8,846	16,999	62,643	9,142	100	100

(NA) Not available.
¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
²Includes expenditures for both plants in operation and for plants under construction but not in operation.
³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parentheses may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
 BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

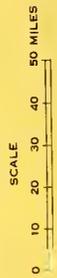
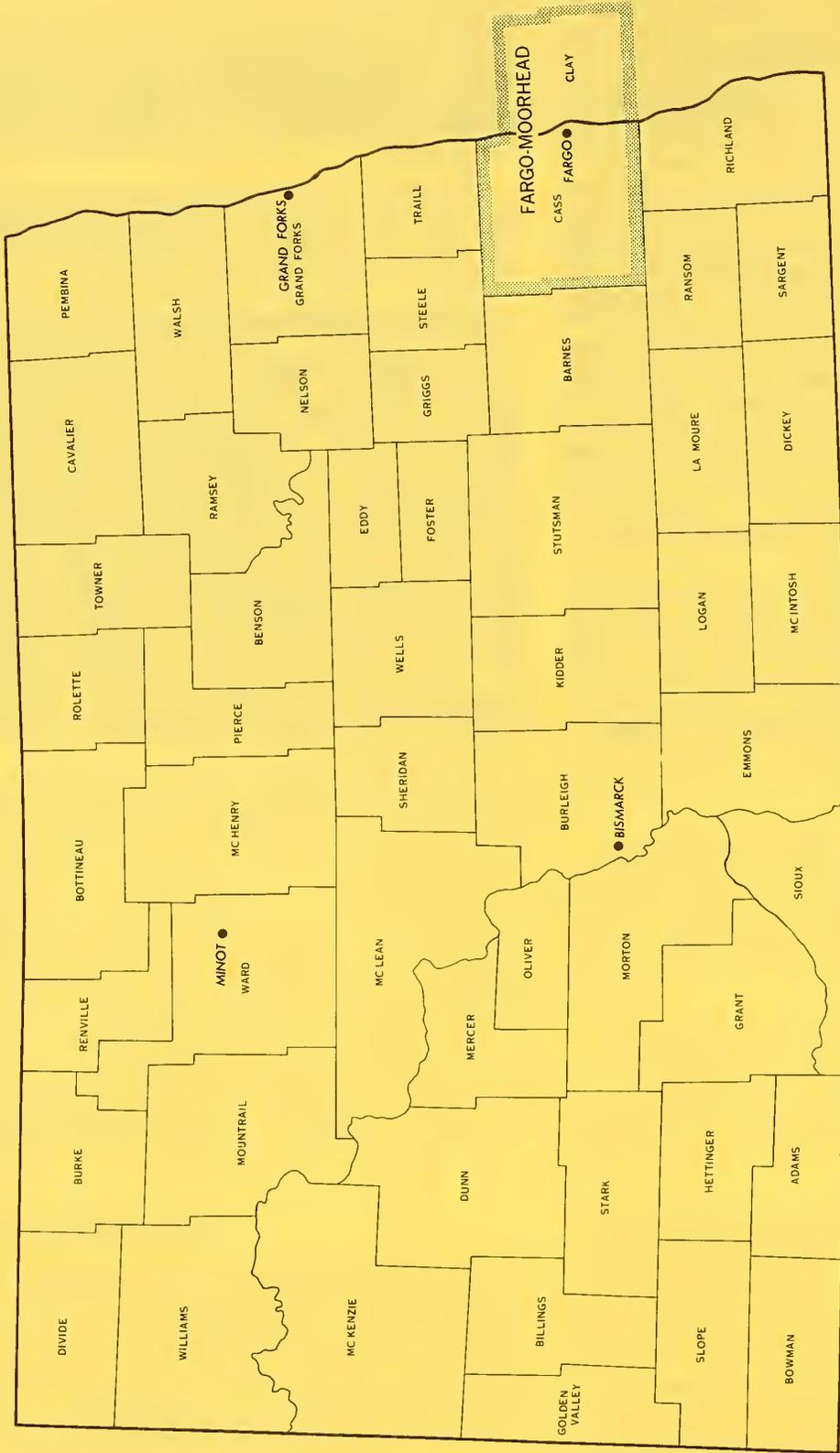
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



NORTH DAKOTA

Incorporated places of 25,000-100,000
Standard Metropolitan Statistical Areas



Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufac- ture (\$1,000)	Capital expend- itures, new ³ (\$1,000)	All employ- ees, number ²	Value added by manufac- ture (\$1,000)
	Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
NORTH DAKOTA, TOTAL.....	458	79	6,478	31,035	4,465	9,186	19,345	72,484	7,933	6,324	62,643
STANDARD METROPOLITAN STATISTICAL AREAS											
Fargo-Moorehead ⁴	99	27	2,314	11,897	1,629	3,296	7,654	29,685	1,402	2,702	21,909
Portion in North Dakota.....	68	18	1,591	8,282	1,119	2,121	5,398	18,433	681	1,966	16,870
Portion in Minnesota.....	31	9	723	3,615	510	1,175	2,256	11,252	721	736	5,039
COUNTIES ¹											
Burleigh.....	23	6	590	2,888	356	716	1,472	5,354	(Z)	534	4,632
Cass.....	68	18	1,591	8,282	1,119	2,121	5,398	18,433	681	1,966	16,870
Grand Forks.....	38	10	665	3,253	440	935	2,002	9,319	585	526	5,235
Stark.....	19	6	309	1,217	234	488	869	2,441	(Z)	216	1,260
Ward.....	39	10	632	3,313	391	840	1,770	6,902	610	614	5,907
Williams.....	23	4	270	1,369	186	372	875	2,223	(Z)	211	1,696

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Fargo-Moorehead Standard Metropolitan Statistical Area consists of Cass County, N.D. and Clay County, Minn.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufac-ture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	458	79	6,478	31,035	4,465	9,186	19,345	72,484	7,933	6,324	62,643
20	Food and kindred products.....	178	40	2,879	13,206	1,889	4,053	7,896	34,285	5,575	3,205	30,316
201	Meat products.....	18	7	423	1,880	347	652	1,574	5,311	(Z)	763	5,827
202	Dairies.....	92	13	1,089	4,726	713	1,623	2,961	10,316	872	1,179	11,638
208	Beverages.....	16	6	282	1,344	132	267	466	2,947	(Z)	244	1,842
27	Printing and publishing.....	132	17	1,341	6,526	861	1,669	4,090	11,089	670	1,230	8,977
271	Newspapers.....	84	13	1,047	5,131	650	1,252	3,138	8,964	541	964	7,126
275	Commercial printing.....	37	4	271	1,284	202	399	886	1,932	(Z)	240	1,712
32	Stone, clay and glass products..	44	8	549	2,569	414	818	1,597	5,221	(Z)	383	3,507
34	Fabricated metal products.....	15	1	255	1,249	176	346	713	2,016	(Z)	270	2,185
--	Administrative and auxiliary ³ ...	-	-	(D)	(D)	-	-	-	-	-	-	-

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics

Part 1, Major Groups 20-28

Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES

MC63(P)-S36



preliminary report

Area series

OHIO

Value added by manufacturing in 1963 in the State of Ohio amounted to \$15,443 million, an increase of 6 percent from 1962 and 35 percent from 1958. Of this total, \$2,458 million was contributed by the transportation equipment industry and \$2,254 million by the primary metal industry, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

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	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employ-ees, number	Value added by manufacture
1963.....	15,177	5,614	1,240,563	8,083,775	889,463	1,807,427	5,254,247	15,443,018	856,498	103	135
1962 ³	(NA)	(NA)	1,222,760	7,680,225	880,793	1,770,462	5,005,113	14,579,780	776,498	102	127
1961 ³	(NA)	(NA)	1,190,044	7,198,468	847,238	1,678,768	4,602,832	13,306,803	752,265	99	116
1960 ³	(NA)	(NA)	1,266,426	7,465,666	912,550	1,809,435	4,860,724	13,829,999	805,563	106	121
1959 ³	(NA)	(NA)	1,265,757	7,368,745	918,468	1,847,388	4,835,806	13,856,820	677,950	106	121
1958.....	14,931	5,534	1,198,805	6,508,367	856,457	1,658,460	4,170,233	11,472,503	822,229	100	100

(NA) Not available. ^RRevised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

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April 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



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EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958
(See text for explanation of column captions)

State, standard metropolitan statistical areas and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
OHIO, TOTAL.....	15,177	5,614	1,240,563	8,083,775	889,463	1,807,427	5,254,247	15,443,018	856,498	1,198,805	11,472,503
STANDARD METROPOLITAN STATISTICAL AREAS											
Akron ⁴	837	304	89,004	622,087	56,352	113,272	358,014	1,031,918	62,979	88,932	808,990
Canton ⁵	512	192	53,681	342,296	39,944	78,800	234,538	657,791	33,457	51,166	499,608
Cincinnati ⁶	1,920	766	152,623	965,009	100,463	207,117	555,623	2,007,160	77,912	156,478	1,555,328
Portion in Ohio.....	1,708	700	141,279	900,398	91,633	189,099	509,609	1,826,787	72,631	145,526	1,428,687
Portion in Kentucky.....	179	55	7,505	42,700	5,732	11,747	29,226	80,761	3,080	7,663	70,360
Portion in Indiana.....	33	11	3,839	21,911	3,098	6,271	16,788	99,612	2,201	3,289	56,281
Cleveland ⁷	4,046	1,432	280,097	1,901,895	194,519	398,608	1,176,073	3,330,349	176,168	271,455	2,557,400
Columbus ⁸	960	351	80,545	511,473	54,127	107,929	304,383	984,354	57,835	72,991	679,786
Dayton ⁹	1,024	381	104,689	722,157	78,327	163,771	503,388	1,297,278	64,528	97,189	912,079
Hamilton-Middletown ¹⁰	192	83	26,202	195,313	19,214	40,190	130,053	373,664	16,573	30,932	318,510
Huntington-Ashland ¹¹	263	111	24,252	146,984	18,905	37,679	104,816	317,411	99,179	22,814	244,042
Portion in Ohio.....	44	19	4,134	25,178	3,386	6,722	19,673	71,116	(D)	4,317	50,423
Portion in West Virginia.....	180	76	13,531	75,627	10,720	21,631	53,509	149,481	(D)	12,336	113,764
Portion in Kentucky.....	39	16	6,587	46,179	4,799	9,326	31,634	96,814	(D)	6,161	79,855
Lima ¹²	145	57	14,847	93,106	10,989	22,189	63,178	206,248	9,606	13,543	140,299
Lorain-Elyria ¹³	268	88	29,885	213,336	22,668	46,739	151,975	545,500	29,712	24,724	259,962
Springfield ¹⁴	198	76	16,997	105,234	12,113	24,644	69,092	176,913	5,458	13,070	127,716
Stuebenville-Weirton ¹⁵	133	64	28,545	205,652	23,589	45,617	163,746	426,523	58,558	29,894	353,022
Portion in Ohio.....	67	29	10,848	78,096	9,110	17,854	64,329	141,492	43,321	11,089	124,088
Portion in West Virginia.....	66	35	17,697	127,556	14,479	27,763	99,417	285,031	15,237	18,805	228,934
Toledo ¹⁶	992	327	71,065	487,303	50,006	102,729	313,086	921,934	42,883	70,838	715,535
Portion in Ohio.....	865	288	64,396	441,163	44,618	90,838	277,552	823,322	34,892	64,688	657,387
Portion in Michigan.....	127	39	6,669	46,140	5,388	11,891	35,534	98,107	7,991	6,150	58,148
Wheeling ¹⁷	185	81	15,701	93,394	11,689	22,463	62,792	190,707	24,904	17,240	150,340
Portion in Ohio.....	78	29	4,754	26,132	3,793	7,072	19,684	46,460	4,353	4,025	28,395
Portion in West Virginia.....	107	52	10,947	67,262	7,896	15,391	43,108	144,247	20,551	13,215	121,945
Youngstown ¹⁸	562	215	68,331	472,043	55,351	108,976	356,947	886,389	57,438	76,437	729,376
COUNTIES ¹											
Adams.....	21	3	345	1,144	302	602	851	2,360	(Z)	326	1,800
Allen.....	145	57	14,847	93,106	10,989	22,189	63,178	206,248	9,606	13,543	140,299
Ashland.....	61	28	5,631	30,024	4,276	8,505	20,543	53,733	1,824	4,639	40,924
Ashtabula.....	153	64	8,640	52,040	6,771	13,926	38,524	112,322	21,244	7,031	72,695
Athens.....	36	9	1,616	8,208	1,200	2,290	5,582	19,673	749	2,022	17,511
Auglaize.....	66	27	4,921	27,690	3,784	8,070	20,156	59,749	2,673	4,291	33,404
Belmont.....	78	29	4,754	26,132	3,793	7,072	19,684	46,460	4,353	4,025	28,395
Brown.....	18	3	463	1,822	422	867	1,637	3,992	(Z)	465	4,122
Butler.....	192	83	26,202	195,313	19,214	40,190	130,053	373,664	16,573	30,932	318,510
Carroll.....	24	13	1,435	7,501	1,121	2,264	5,490	11,895	(Z)	1,556	13,362
Champaign.....	37	13	2,190	11,394	1,717	3,558	8,508	21,732	667	1,797	16,573
Clark.....	198	76	16,997	105,234	12,113	24,644	69,092	176,913	5,458	13,070	127,716
Clermont.....	43	11	709	3,057	546	1,135	2,010	4,930	(Z)	528	2,591
Clinton.....	45	18	2,043	8,165	1,392	3,250	6,184	21,700	991	1,889	14,683
Columbiana.....	195	80	9,520	54,557	7,508	14,967	39,825	89,850	2,420	10,313	70,950
Coshocton.....	66	21	4,621	25,547	3,200	6,869	16,379	56,900	5,094	3,671	36,331
Crawford.....	86	36	8,032	46,656	5,428	10,978	28,909	89,783	2,880	7,738	63,182
Cuyahoga.....	3,625	1,295	257,019	1,767,390	177,649	365,103	1,090,956	3,093,667	161,582	252,941	2,409,156
Darke.....	70	22	2,723	13,218	2,321	4,789	10,419	37,754	1,029	2,653	25,566
Defiance.....	46	18	4,379	30,880	3,613	8,037	24,355	59,384	4,810	3,873	35,136
Delaware.....	49	16	2,342	12,354	1,880	3,878	8,988	29,089	728	1,939	18,810
Erie.....	120	52	9,682	59,805	7,727	15,845	44,416	123,220	8,624	10,284	90,542
Fairfield.....	71	31	9,089	45,579	6,693	12,214	30,138	78,701	2,036	7,499	58,843
Payette.....	33	17	2,021	11,359	1,521	3,170	7,877	24,208	669	1,424	11,020
Franklin.....	884	321	75,441	483,366	50,111	99,820	284,939	898,073	49,121	68,983	622,651
Fulton.....	82	29	3,153	14,609	2,661	5,328	10,678	33,763	1,920	2,179	21,724
Gallia.....	20	4	255	1,283	192	441	919	1,925	(Z)	208	1,599
Geauga.....	74	25	3,536	18,927	2,614	5,061	11,786	34,533	2,053	2,230	17,114
Greene.....	80	20	2,424	14,476	1,838	3,663	9,817	31,444	1,303	2,292	25,232
Guernsey.....	49	19	4,772	27,216	3,187	6,153	14,700	67,356	955	3,537	30,808
Hamilton.....	1,601	670	139,062	888,516	89,967	185,538	501,968	1,805,703	71,554	143,582	1,414,719
Hancock.....	84	35	5,802	32,584	4,495	8,692	22,594	62,391	3,165	6,625	42,598
Hardin.....	38	14	1,943	9,681	1,538	3,031	7,240	29,510	951	1,675	21,296
Harrison.....	23	5	1,319	4,357	1,148	1,725	3,410	6,136	(Z)	1,168	5,339
Henry.....	64	21	2,888	13,975	2,342	4,823	9,951	79,159	1,689	2,249	41,238
Highland.....	39	14	1,778	6,828	1,536	3,115	5,380	13,600	694	1,697	9,678
Hooking.....	38	13	1,505	7,393	1,234	2,486	5,845	17,862	(Z)	546	13,675
Holmes.....	41	10	826	3,571	719	1,514	2,929	7,353	(Z)	1,138	7,069
Huron.....	92	36	4,790	24,106	3,966	8,094	18,190	55,472	3,809	3,737	31,128
Jackson.....	60	22	1,777	8,381	1,384	2,652	5,661	20,634	666	1,801	13,304

See footnotes at end of table.

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture, new ³	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufac-ture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Jefferson.....	67	29	10,848	78,096	9,110	17,854	64,329	141,492	43,321	11,084	124,088
Knox.....	43	10	4,198	27,655	3,117	6,504	18,772	47,970	3,327	3,868	31,656
Lake.....	240	84	15,068	92,439	10,834	21,893	57,875	159,609	11,086	12,558	101,751
Lawrence.....	44	19	4,134	25,178	3,386	6,722	19,673	71,116	(D)	4,317	50,423
Licking.....	92	34	10,517	67,038	8,256	16,293	49,485	120,013	9,146	9,586	118,187
Logan.....	40	17	2,006	11,001	1,627	3,327	8,458	26,124	1,473	1,975	18,957
Lorain.....	268	88	29,885	213,336	22,668	46,739	151,975	545,500	25,712	24,724	259,962
Lucas.....	756	256	58,252	396,606	39,538	80,053	240,804	722,849	28,495	58,317	570,107
Madison.....	26	8	659	2,611	571	1,153	2,089	4,645	(Z)	1,115	9,279
Mahoning.....	325	118	36,325	244,853	28,849	56,336	180,601	457,298	21,957	42,550	385,916
Marion.....	74	33	7,356	45,172	5,616	11,326	32,699	105,978	3,528	6,305	67,181
Medina.....	107	28	4,474	23,139	3,422	6,551	15,456	42,540	1,447	3,726	29,479
Meigs.....	19	7	366	1,433	283	529	1,000	3,272	(Z)	493	2,753
Mercer.....	65	17	3,501	18,248	2,813	5,499	13,548	37,843	1,611	3,095	26,772
Miami.....	140	61	10,363	61,794	7,720	16,171	41,357	139,549	5,788	9,105	83,447
Montgomery.....	771	291	91,091	641,910	68,127	142,623	449,447	1,117,212	57,067	85,137	798,905
Morgan.....	16	5	624	3,196	525	821	2,293	6,174	(Z)	614	6,467
Muskingum.....	102	42	8,708	44,520	7,052	13,757	32,419	76,601	8,251	9,714	79,542
Ottawa.....	74	23	3,178	18,569	2,544	5,590	14,200	37,586	2,104	2,778	28,780
Paulding.....	24	5	910	5,083	765	1,654	4,268	15,185	(Z)	857	9,848
Perry.....	33	17	1,512	6,377	1,291	2,528	5,026	10,371	(Z)	1,678	10,137
Pickaway.....	27	14	2,761	15,753	2,136	4,231	10,456	57,192	7,986	2,069	38,325
Portage.....	135	57	6,658	39,848	5,132	10,741	26,765	72,956	5,748	5,566	48,373
Preble.....	33	9	811	3,977	642	1,314	2,767	9,073	(Z)	655	4,495
Putnam.....	37	12	2,468	12,300	2,078	4,259	9,903	26,321	903	1,806	16,227
Richland.....	171	66	22,492	147,536	16,611	33,605	98,505	309,382	20,520	19,650	225,608
Ross.....	62	11	4,769	31,356	3,908	8,780	24,555	67,270	7,626	4,588	48,905
Sandusky.....	108	43	6,217	36,611	4,833	9,752	25,280	93,291	4,899	6,019	69,991
Scioto.....	87	27	7,078	38,799	5,861	11,175	30,007	72,244	4,920	7,031	59,963
Seneca.....	80	35	7,818	50,245	5,945	12,607	35,415	107,025	10,533	7,472	78,286
Shelby.....	77	22	5,763	31,226	4,456	8,987	22,187	54,258	3,121	5,115	29,001
Stark.....	512	192	53,681	342,296	39,944	78,800	234,538	657,791	33,457	51,166	499,608
Summit.....	702	249	82,346	582,239	51,220	102,531	331,249	958,962	57,231	83,366	760,617
Trumbull.....	237	97	32,006	227,190	26,502	52,640	176,346	429,091	35,481	33,887	343,460
Tuscarawas.....	147	62	8,663	48,307	6,785	12,975	34,514	99,716	4,527	8,699	76,440
Union.....	28	11	2,170	11,931	1,372	2,658	6,822	28,892	1,096	1,166	13,652
Van Wert.....	40	17	2,631	14,586	1,998	4,009	9,703	34,426	1,847	2,180	21,294
Vinton.....	21	2	392	1,460	370	676	1,381	4,503	(Z)	487	2,938
Warren.....	64	19	1,508	8,825	1,120	2,426	5,631	16,154	900	1,416	11,377
Washington.....	74	32	4,761	28,409	3,392	6,745	18,835	62,376	6,786	4,511	61,401
Wayne.....	139	68	10,235	56,345	7,452	15,244	37,452	113,603	6,337	9,105	92,095
Williams.....	83	34	5,108	27,677	4,120	8,363	20,041	53,581	2,708	3,647	28,654
Wood.....	109	32	6,144	44,557	5,080	10,785	36,748	100,978	6,397	6,371	87,280
Wyandot.....	41	16	1,543	7,170	1,280	2,638	5,621	17,158	506	1,258	10,879

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Akron Standard Metropolitan Statistical Area consists of Portage and Summit Counties, Ohio.⁵The Canton Standard Metropolitan Statistical Area is coextensive with Stark County, Ohio.⁶The Cincinnati Standard Metropolitan Statistical Area consists of Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Kentucky; and Dearborn County, Indiana.⁷The Cleveland Standard Metropolitan Statistical Area consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio.⁸The Columbus Standard Metropolitan Statistical Area consists of Delaware, Franklin, and Pickaway Counties, Ohio.⁹The Dayton Standard Metropolitan Statistical Area consists of Greene, Miami, Montgomery, and Preble Counties, Ohio.¹⁰The Hamilton-Middletown Standard Metropolitan Statistical Area is coextensive with Butler County, Ohio.¹¹The Huntington-Ashland Standard Metropolitan Statistical Area consists of Cabell and Wayne Counties, W. Va., Boyd County, Ky., and Lawrence County, Ohio.¹²The Lima Standard Metropolitan Statistical Area is coextensive with Allen County, Ohio.¹³The Lorain-Elyria Standard Metropolitan Statistical Area is coextensive with Lorain County, Ohio.¹⁴The Springfield Standard Metropolitan Statistical Area is coextensive with Clark County, Ohio.¹⁵The Steubenville-Weirton Standard Metropolitan Statistical Area consists of Jefferson County, Ohio, and Brooke and Hancock Counties, W. Va.¹⁶The Toledo Standard Metropolitan Statistical Area consists of Lucas and Wood Counties, Ohio and Monroe County, Michigan.¹⁷The Wheeling Standard Metropolitan Statistical Area consists of Ohio and Marshall Counties, W. Va., and Belmont County, Ohio.¹⁸The Youngstown-Warren Standard Metropolitan Statistical Area consists of Mahoning and Trumbull Counties, Ohio.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	15,177	5,614	1,240,563	8,083,775	889,463	1,807,427	5,254,247	15,443,018	856,498	1,198,805	11,472,503
20	Food and kindred products.....	1,724	661	77,194	424,435	44,692	92,660	225,467	1,018,270	52,983	85,948	871,624
201	Meat products.....	303	111	12,025	73,391	9,159	18,811	50,589	127,492	5,895	14,668	110,754
202	Dairies.....	377	176	18,880	103,438	7,172	15,432	37,978	221,121	14,940	20,707	199,161
203	Canned and frozen foods.....	138	53	6,342	28,051	5,073	10,476	18,916	123,868	3,767	4,973	58,104
204	Grain mill products.....	128	41	4,077	24,069	3,144	6,667	17,129	109,693	3,836	4,857	91,396
207	Candy and related products...	81	17	1,665	6,296	1,290	2,567	4,252	14,376	850	1,843	11,240
208	Beverages.....	208	83	9,019	54,578	4,474	9,060	24,508	118,915	12,504	10,753	122,469
209	Miscellaneous foods and kindred products.....	208	59	6,739	39,028	4,102	8,599	20,445	110,421	4,708	6,843	88,091
21	Tobacco manufactures.....	12	8	1,118	4,060	947	1,802	3,151	12,906	(Z)	1,495	11,318
22	Textile mill products.....	88	46	8,865	46,535	7,437	15,201	33,888	86,502	6,003	9,310	67,382
225	Knitting mills.....	20	16	3,048	12,172	2,809	5,409	9,787	19,571	1,164	3,232	19,176
229	Miscellaneous textile goods..	35	16	4,083	26,409	3,157	6,722	18,785	52,800	4,060	4,254	37,847
23	Apparel and related products...	392	139	19,791	77,737	16,056	29,386	50,955	169,266	1,981	21,379	123,252
231	Men's and boys' suits and coats.....	24	14	5,605	22,297	4,652	8,486	16,807	53,664	(Z)	6,254	35,933
232	Men's and boys' furnishings..	49	29	4,320	16,368	3,411	6,312	9,680	39,445	(Z)	5,053	30,295
233	Women's and misses' outerwear	52	34	4,431	18,656	3,477	6,392	10,527	40,437	(Z)	4,146	26,972
238	Miscellaneous apparel.....	33	14	1,785	6,681	1,536	2,635	4,871	11,165	(Z)	1,703	9,332
239	Fabricated textiles, n.e.c....	208	42	3,116	12,062	2,537	4,747	7,831	20,998	96	3,488	17,441
24	Lumber and wood products.....	801	124	9,730	42,267	7,665	15,262	29,669	84,437	5,422	8,911	57,719
242	Sawmills and planing mills...	376	28	2,402	7,644	2,032	3,796	6,526	13,994	1,975	2,165	11,574
243	Millwork and related products	147	46	3,775	19,711	2,735	5,743	12,569	40,700	1,634	3,371	26,479
244	Wooden containers.....	54	18	946	3,625	819	1,629	2,860	5,794	(Z)	1,552	8,021
249	Miscellaneous wood products..	148	31	2,406	10,762	1,892	3,771	7,273	22,708	1,365	1,707	13,225
25	Furniture and fixtures.....	359	120	17,510	96,346	14,149	27,643	70,231	181,476	6,275	18,877	159,644
252	Office furniture.....	20	12	3,628	22,909	3,005	5,829	17,059	43,457	1,039	4,291	40,513
254	Partitions and fixtures.....	98	30	4,660	28,370	3,567	6,994	19,749	52,900	2,436	5,260	46,599
259	Furniture and fixtures, n.e.c.....	27	4	459	2,118	375	768	1,644	5,976	(Z)	424	3,835
26	Paper and allied products.....	305	216	36,919	232,431	29,101	63,752	168,829	426,722	29,089	35,821	343,331
262	Paper mills, except building.	19	19	8,141	59,224	6,520	15,236	44,818	129,369	11,056	8,600	92,478
264	Paper and paperboard products	124	66	10,959	67,000	8,255	17,798	45,132	118,049	7,988	10,435	91,159
265	Paperboard containers and boxes.....	133	105	14,421	83,280	11,461	23,922	59,763	123,974	6,714	12,904	106,677
27	Printing and publishing.....	1,878	449	59,606	369,858	39,039	78,388	228,022	672,265	40,990	57,912	523,888
271	Newspapers.....	333	116	16,259	102,746	8,695	16,956	54,965	185,728	10,884	16,975	154,028
272	Periodicals.....	88	19	3,135	18,717	864	1,595	4,829	47,115	1,698	3,274	39,080
273	Books.....	60	24	3,558	21,727	2,347	4,950	13,025	48,737	3,735	2,666	24,647
274	Miscellaneous publishing....	43	11	640	3,496	246	491	1,259	4,603	725	487	3,796
275	Commercial printing.....	1,106	195	23,984	148,144	18,653	37,424	107,359	244,070	19,174	22,566	188,914
276	Manifold business forms.....	28	18	4,063	26,160	2,986	6,263	18,892	59,989	2,455	4,329	44,805
277	Greeting card manufacturing..	8	4	4,541	26,664	2,647	5,626	11,321	48,413	3,633	3,633	37,770
278	Bookbinding and related work.	58	19	1,221	5,806	1,016	2,011	4,322	10,419	(Z)	1,453	9,864
279	Printing trades services.....	154	43	2,205	16,398	1,585	3,072	12,050	23,191	755	2,529	21,584
28	Chemicals and allied products..	755	292	46,312	311,727	27,896	56,951	168,019	981,293	68,455	45,438	714,852
281	Basic chemicals.....	146	66	17,540	122,725	10,787	21,744	72,438	336,636	38,284	17,917	250,581
282	Fibers, plastics, rubbers....	44	32	6,495	42,334	4,900	10,050	28,523	115,450	14,451	4,889	72,740
283	Drugs.....	55	13	2,764	18,460	942	1,865	4,250	45,932	1,750	2,542	29,593
284	Cleaning and toilet goods....	140	37	5,417	38,695	2,951	6,307	19,063	257,964	5,292	5,644	181,360
285	Paints and allied products...	121	56	6,011	39,167	3,223	6,668	17,541	92,589	2,268	6,067	84,438
289	Miscellaneous chemical products.....	159	54	5,874	39,996	3,521	7,086	19,463	98,721	4,728	4,993	69,680
29	Petroleum and coal products....	155	51	6,904	50,691	4,851	9,755	33,465	162,089	8,114	7,672	141,769
291	Petroleum refining.....	19	14	3,921	31,741	2,859	5,616	21,943	107,960	5,318	4,595	101,480
295	Paving and roofing materials.	96	22	2,123	13,292	1,608	3,357	9,034	38,339	2,264	2,055	27,331
299	Petroleum and coal products, n.e.c.....	40	15	860	5,658	384	782	2,488	15,790	532	1,022	12,958
30	Rubber and plastics products, n.e.c.....	472	266	79,634	527,592	60,300	121,409	362,225	947,789	64,459	76,627	710,124
301	Tires and inner tubes.....	23	17	31,005	235,156	23,256	45,585	165,064	437,524	32,558	35,887	384,119
306	Rubber products, n.e.c.....	155	96	31,871	200,436	23,364	46,716	131,033	324,686	17,010	29,223	222,262
307	Plastics products, n.e.c.....	288	148	15,699	84,705	12,783	27,434	60,370	171,209	14,097	10,336	92,564
31	Leather and leather products...	81	38	9,618	38,724	8,511	15,913	30,565	66,750	1,554	10,920	62,456
314	Footwear, except rubber....	23	19	7,434	28,842	6,654	12,288	22,839	45,866	948	8,561	45,883
32	Stone, clay and glass products.	1,100	408	63,156	358,748	51,466	101,248	271,444	755,620	49,361	64,434	623,881
322	Pressed and blown glassware..	26	22	12,386	67,140	10,626	19,858	54,678	148,361	4,553	11,850	111,613
323	Products of purchased glass..	61	23	3,638	23,076	3,059	6,166	18,539	55,783	2,906	3,464	59,753
324	Cement, hydraulic.....	12	9	1,823	12,150	1,448	2,917	8,790	37,830	6,592	2,362	36,817
325	Structural clay products.....	145	117	12,708	63,950	10,772	20,242	48,331	103,150	4,663	14,909	98,376
326	Pottery and related products.	79	47	8,663	40,447	7,360	13,910	31,670	66,466	1,680	9,287	56,041
327	Concrete and plaster products	580	117	10,056	60,612	6,717	14,292	36,223	138,495	14,364	10,402	111,867
329	Nonmetallic mineral products.	152	64	8,868	52,213	7,033	14,450	38,526	113,607	9,693	7,438	77,058

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
33	Primary metal industries.....	660	387	159,620	1,132,983	134,015	267,411	898,668	2,254,048	217,599	153,269	1,643,681
331	Steel rolling and finishing..	87	76	90,555	661,760	77,344	148,474	535,113	1,415,008	163,329	93,387	1,111,351
332	Iron and steel foundries....	156	123	29,014	194,401	24,621	51,129	154,653	323,988	20,427	25,637	203,025
335	Nonferrous rolling and drawing.....	50	38	16,969	119,962	13,254	28,649	89,940	248,545	21,619	13,370	160,414
336	Nonferrous foundries.....	206	77	10,602	65,884	8,802	18,180	50,555	108,111	3,781	10,029	76,074
339	Primary metal industries, n.e.c.....	120	50	8,359	61,026	6,827	14,034	46,963	89,238	5,499	8,342	64,453
34	Fabricated metal products.....	2,015	835	115,395	715,375	88,717	180,967	497,050	1,332,813	61,302	113,267	1,035,289
342	Cutlery, hand tools, hardware	170	68	14,216	93,428	11,272	22,905	68,428	200,871	15,977	13,087	122,957
343	Plumbing and heating, except electric.....	89	50	10,850	66,424	8,032	15,371	43,816	142,428	4,982	10,687	108,457
344	Structural metal products....	600	225	27,808	170,596	19,532	39,331	106,506	301,282	10,575	30,584	277,357
345	Screw machine products.....	271	114	14,559	91,965	11,661	24,786	66,108	157,423	6,783	13,818	122,435
346	Metal stampings.....	254	139	17,471	106,972	14,394	29,813	81,472	180,062	7,507	17,124	130,646
348	Fabricated wire products, n.e.c.....	102	35	2,985	16,958	2,404	4,918	11,886	29,695	1,287	4,412	39,410
349	Fabricated metal products, n.e.c.....	192	104	19,180	122,274	14,443	29,493	83,118	225,372	9,359	16,967	173,948
35	Machinery, except electrical...	2,728	821	162,925	1,091,110	118,379	243,852	730,354	1,919,086	82,207	157,461	1,410,508
352	Farm machinery and equipment.	70	31	6,346	36,005	5,096	10,257	27,012	60,867	2,003	5,273	45,043
353	Construction and like equipment.....	193	105	22,473	147,660	15,236	30,682	90,360	252,222	7,319	24,300	206,230
354	Metalworking machinery.....	942	301	46,232	330,241	33,186	71,367	219,045	559,393	26,056	42,748	376,082
355	Special industry machinery...	222	99	16,120	108,362	11,083	23,182	67,778	191,743	5,682	14,250	128,817
356	General industrial machinery.	377	125	31,534	205,265	22,371	45,397	132,777	380,569	15,471	30,627	269,259
358	Service industry machines....	103	42	9,300	56,348	6,770	13,725	36,909	109,584	3,533	7,968	66,088
359	Miscellaneous machinery.....	792	105	8,714	49,288	7,092	14,640	37,105	82,290	3,833	9,339	71,577
36	Electrical machinery.....	501	283	117,215	730,663	86,739	173,138	482,336	1,537,194	52,429	108,122	1,143,242
361	Electric distribution products.....	61	35	6,052	34,342	4,471	8,991	21,628	75,677	1,879	5,774	53,666
362	Electric industrial apparatus	112	66	30,035	202,056	21,504	44,611	132,620	369,583	15,203	32,661	310,082
363	Household appliances.....	38	25	32,094	219,806	25,132	49,660	156,805	525,785	17,634	29,859	394,390
364	Lighting and wiring devices..	115	62	14,340	78,804	11,518	22,564	56,383	204,733	4,982	12,399	141,700
365	Radio and TV receiving equipment.....	16	7	1,111	5,068	805	1,641	3,150	8,940	(Z)	2,845	21,745
366	Communication equipment.....	43	22	15,103	87,756	8,876	17,669	42,819	151,619	4,242	4,103	24,871
367	Electronic components.....	72	38	9,777	48,754	7,851	14,842	34,006	81,289	3,897	7,695	57,018
369	Electrical products, n.e.c....	44	28	8,703	54,077	6,582	13,160	34,225	119,568	4,456	12,786	139,770
37	Transportation equipment.....	401	230	163,386	1,216,333	122,471	259,270	844,177	2,458,182	90,493	151,552	1,566,867
371	Motor vehicles and equipment.	224	145	109,311	808,698	90,592	194,886	641,075	1,839,463	75,233	84,259	943,872
372	Aircraft and parts.....	80	46	47,275	365,548	26,265	53,166	170,618	549,258	13,338	60,674	570,621
373	Ship and boat building.....	34	10	1,466	8,388	1,271	2,374	6,755	12,549	522	2,491	15,561
38	Instruments and related products.....	204	70	12,564	69,915	8,161	16,120	38,096	139,628	7,173	9,606	77,393
381	Scientific instruments.....	25	4	434	2,529	294	604	1,484	5,450	(Z)	452	4,221
382	Mechanical measuring devices.	45	25	8,301	47,143	5,051	9,852	23,342	85,560	5,761	6,008	50,560
384	Medical instruments and supplies.....	82	28	2,355	11,709	1,701	3,340	7,185	21,800	(Z)	2,379	17,144
385	Ophthalmic goods.....	22	3	284	1,279	241	487	1,013	2,119	(Z)	226	1,078
386	Photographic equipment.....	20	7	355	2,047	246	510	1,299	4,041	(Z)	273	2,783
39	Miscellaneous manufacturing, including ordnance ³	545	170	25,231	134,580	18,871	37,299	87,636	236,682	10,868	24,255	184,283
391	Jewelry and silverware.....	45	6	417	2,181	329	632	1,612	4,917	(Z)	567	5,084
393	Musical instruments and parts	17	8	1,048	6,307	952	1,960	5,541	7,247	(Z)	2,491	13,024
394	Toys and sporting goods.....	100	36	7,338	32,010	5,816	11,352	21,619	60,127	3,589	6,782	46,621
395	Pens, pencils and office supplies.....	47	11	1,625	8,816	990	1,946	4,517	16,741	(Z)	1,610	13,332
398	Miscellaneous manufactures...	324	106	14,635	84,532	10,638	21,154	53,788	147,614	6,491	12,606	104,086
399												
190												
--	Administrative and auxiliary ⁴ ..	-	-	47,867	411,665	-	-	-	-	-	36,528	-

-Represents zero. n.e.c. Not elsewhere classified. ^RRevised. (Z) Less than \$500 thousand.¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
AKRON SMSA (Consists of Portage and Summit Counties, Ohio)												
	All industries, total ²	837	304	89,004	622,087	56,352	113,272	358,014	1,031,918	62,979	88,932	808,990
20	Food and kindred products.....	71	26	4,338	20,184	1,426	2,933	7,492	42,732	2,052	3,203	39,444
202	Dairies.....	9	6	2,735	11,672	562	1,181	3,593	23,098	930	1,350	15,377
205	Bakery products.....	19	6	702	3,755	352	728	1,763	7,400	(Z)	661	6,760
208	Beverages.....	10	5	394	2,438	166	348	798	5,177	675	457	5,062
24	Lumber and wood products.....	26	4	464	2,405	332	646	1,502	8,320	(Z)	571	4,390
26	Paper and allied products.....	13	8	501	2,998	357	754	1,795	5,732	(Z)	326	2,400
27	Printing and publishing.....	79	20	1,781	11,830	1,138	2,148	7,595	20,328	1,076	1,654	17,254
275	Commercial printing.....	51	9	550	3,285	404	767	2,258	5,103	(Z)	515	3,928
28	Chemicals and allied products..	27	11	3,547	26,251	2,208	4,504	14,994	69,819	4,189	3,361	50,111
30	Rubber and plastics products, n.e.c.....	90	57	38,285	277,737	27,257	52,990	181,213	454,896	34,523	42,269	395,496
301	Tires and inner tubes.....	12	9	26,192	198,822	19,535	38,020	138,450	353,067	28,365	(D)	(D)
306	Rubber products, n.e.c.....	39	23	9,681	64,686	5,772	10,521	32,612	71,415	3,791	9,783	59,640
32	Stone, clay and glass products..	51	20	2,722	15,496	1,922	3,509	9,846	31,694	2,131	2,450	22,252
327	Concrete and plaster products	25	7	464	2,852	245	497	1,475	6,519	(Z)	651	5,960
33	Primary metal industries.....	23	9	1,252	7,676	1,089	2,208	6,199	18,299	(Z)	(D)	(D)
332	Iron and steel foundries.....	6	5	947	5,624	824	1,642	4,549	8,667	(Z)	(D)	(D)
34	Fabricated metal products.....	113	47	10,021	64,032	6,292	12,913	35,708	125,641	4,220	9,016	90,504
342	Cutlery, hand tools, hardware	13	6	477	2,616	376	722	1,796	5,929	(Z)	336	3,158
346	Metal stampings.....	11	7	681	3,848	564	1,260	2,949	6,625	(Z)	509	3,737
349	Fabricated metal products, n.e.c.....	9	6	907	5,410	680	1,300	3,832	11,191	(Z)	1,004	12,207
35	Machinery, except electrical...	224	63	7,634	53,304	5,795	12,353	35,836	96,217	3,660	5,064	45,796
354	Metalworking machinery.....	91	29	2,930	21,145	2,393	5,276	15,576	34,648	1,872	1,791	16,390
355	Special industry machinery.....	17	7	1,258	9,048	920	1,931	5,629	16,969	(Z)	1,594	16,222
359	Miscellaneous machinery.....	70	16	1,349	7,771	1,140	2,318	5,941	14,827	729	1,077	7,382
37	Transportation equipment.....	19	11	9,880	77,269	6,430	13,933	44,745	131,564	6,646	(D)	(D)
38	Instruments and related products.....	13	5	265	1,352	193	376	914	2,904	(Z)	318	2,414
39	Miscellaneous manufacturing, including ordnance ³	31	9	1,283	7,286	941	1,857	4,802	9,921	3,181	(D)	(D)
394	Toys and sporting goods.....	11	3	649	2,965	455	866	1,647	4,311	(Z)	926	6,419
--	Administrative and auxiliary ⁴ ..	-	-	5,578	45,759	-	-	-	-	-	3,977	-
CANTON SMSA (Coextensive with Stark County, Ohio)												
	All industries, total ²	512	192	53,681	342,296	39,944	78,800	234,538	657,791	33,457	51,166	499,608
20	Food and kindred products.....	72	27	4,512	21,967	2,455	4,984	13,457	45,352	1,962	4,369	35,583
201	Meat products.....	12	7	1,895	13,130	1,459	3,085	9,300	23,329	769	1,442	11,426
202	Dairies.....	20	8	571	3,026	223	451	1,052	6,000	(Z)	807	7,133
205	Bakery products.....	16	8	1,736	4,582	610	1,135	2,584	13,324	(Z)	1,800	14,795
23	Apparel and related products...	10	3	269	898	253	493	773	1,454	(Z)	182	872
24	Lumber and wood products.....	18	5	375	1,725	307	641	1,245	2,500	(Z)	137	682
26	Paper and allied products.....	13	9	839	4,475	659	1,344	3,056	6,830	(Z)	553	4,842
27	Printing and publishing.....	54	12	1,264	6,211	824	1,639	3,567	13,311	920	1,197	11,125
275	Commercial printing.....	35	6	641	2,673	510	1,013	1,636	6,007	773	558	4,973
28	Chemicals and allied products..	23	12	467	2,763	266	521	1,263	14,776	(Z)	478	11,704
30	Rubber and plastics products, n.e.c.....	16	15	2,593	13,993	2,264	4,585	10,917	23,627	1,290	1,553	11,058
306	Rubber products, n.e.c.....	9	8	2,177	12,188	1,878	3,742	9,403	19,456	1,017	1,378	9,098
32	Stone, clay and glass products..	42	21	3,048	16,572	2,479	4,986	12,396	30,450	1,778	3,190	24,581
325	Structural clay products.....	14	14	2,254	11,665	1,910	3,808	9,211	17,820	1,110	2,516	17,488
33	Primary metal industries.....	35	23	17,350	122,869	14,859	28,839	96,455	265,562	14,465	16,431	191,038
339	Primary metal industries, n.e.c.....	9	7	2,824	21,746	2,375	4,753	17,697	31,020	1,994	2,377	20,396
34	Fabricated metal products.....	84	33	5,935	34,830	4,393	8,559	23,999	74,422	3,080	7,045	62,618
342	Cutlery, hand tools, hardware	9	4	801	3,826	629	1,206	2,559	9,871	(Z)	353	1,451
344	Structural metal products.....	26	9	1,416	8,848	1,053	1,984	6,349	12,803	515	3,299	28,105
346	Metal stampings.....	13	6	738	3,860	647	1,190	3,209	9,294	(Z)	849	7,407
35	Machinery, except electrical...	81	16	8,240	53,602	6,477	12,731	39,127	88,253	3,127	9,352	73,186
354	Metalworking machinery.....	26	2	260	1,744	217	497	1,420	2,727	(Z)	214	1,755
359	Miscellaneous manufacturing.....	23	3	322	1,659	254	477	1,111	2,161	(Z)	221	1,901
--	Administrative and auxiliary ⁴ ..	-	-	2,433	21,103	-	-	-	-	-	677	-

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CINCINNATI SMSA (Consists of Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky; and Dearborn County, Ind.)												
	All industries, total ²	1,920	766	152,623	965,009	100,463	207,117	555,623	2,007,160	77,912	156,478	1,555,328
20	Food and kindred products.....	253	104	17,825	110,020	11,296	23,070	63,035	302,573	12,457	19,829	244,808
201	Meat products.....	49	22	2,536	16,542	1,845	3,688	10,692	22,838	1,362	2,824	20,454
202	Dairies.....	47	19	2,142	12,603	783	1,654	4,289	21,491	1,692	2,537	26,153
204	Grain mill products.....	15	7	850	5,798	640	1,358	4,157	27,647	873	765	10,328
205	Bakery products.....	35	13	3,013	17,764	1,963	4,025	10,472	44,092	2,232	3,734	37,650
207	Candy and related products....	18	6	554	2,255	482	889	1,760	6,571	(Z)	765	4,574
208	Beverages.....	34	19	5,713	35,686	3,766	7,582	22,297	127,777	4,092	(D)	(D)
209	Miscellaneous foods and kindred products.....	32	11	2,189	15,293	1,158	2,507	6,761	38,719	1,735	2,280	35,337
22	Textile mill products.....	13	7	766	3,977	690	1,481	3,297	10,980	(Z)	1,036	8,547
23	Apparel and related products....	90	37	5,204	19,057	4,207	7,578	12,619	36,513	777	6,393	30,433
231	Men's and boys' suits and coats.....	15	10	2,044	7,480	1,677	2,941	5,154	12,900	(Z)	2,459	11,629
232	Men's and boys' furnishings....	15	8	1,489	5,042	1,206	2,163	3,589	9,071	(Z)	1,820	8,418
233	Women's and misses' outerware.	10	6	833	3,515	646	1,193	1,963	7,549	(Z)	1,205	5,728
239	Fabricated textiles, n.e.c....	40	10	634	2,332	510	957	1,427	4,603	520	681	3,603
25	Furniture and fixtures.....	67	26	3,821	19,336	3,185	6,334	14,697	36,037	687	3,883	31,858
251	Household furniture.....	34	16	2,297	11,207	1,914	3,918	8,254	21,478	(Z)	2,523	19,050
26	Paper and allied products.....	64	46	7,177	41,961	5,820	12,495	31,189	68,747	3,050	6,617	58,951
264	Paper and paperboard products.	23	12	1,993	9,504	1,565	3,221	6,828	19,437	959	1,758	11,771
265	Paperboard containers and boxes.....	31	24	3,721	22,435	3,060	6,516	16,411	29,260	1,334	(D)	(D)
27	Printing and publishing.....	320	100	12,489	74,870	8,407	16,404	44,815	135,221	6,495	12,341	102,823
272	Periodicals.....	12	5	734	4,019	142	246	761	8,607	(Z)	911	6,509
273	Books.....	12	8	1,154	6,845	709	1,474	3,808	16,763	(Z)	921	10,035
275	Commercial printing.....	201	53	5,841	34,855	4,585	8,978	24,190	57,768	4,861	5,766	46,993
278	Bookbinding and related work..	17	8	369	1,655	299	613	1,155	2,566	(Z)	437	3,377
279	Printing trades services.....	26	10	504	3,915	402	760	3,084	5,437	(Z)	679	5,575
28	Chemicals and allied products...	113	51	10,968	79,090	6,562	13,625	42,478	357,548	9,128	11,634	258,412
281	Basic chemicals.....	20	11	3,616	25,001	2,401	4,682	15,764	66,379	1,472	4,411	61,825
284	Cleaning and toilet goods.....	36	10	3,294	26,413	2,133	4,622	14,961	220,496	4,439	3,929	152,872
285	Paints and allied products....	16	6	808	5,052	457	926	2,477	11,775	(Z)	702	9,072
289	Miscellaneous chemical products.....	19	11	1,219	8,556	745	1,543	4,784	22,351	1,253	976	15,563
29	Petroleum and coal products....	19	5	1,242	8,234	1,015	2,194	6,489	22,555	1,025	1,802	25,147
30	Rubber and plastics products, n.e.c.....	33	14	3,370	21,247	2,633	5,805	14,981	50,078	2,179	(D)	(D)
31	Leather and leather products....	18	10	2,007	7,855	1,800	3,466	6,545	11,096	564	2,414	11,221
314	Footwear, except rubber.....	5	5	1,783	6,981	1,604	3,084	5,890	9,653	(D)	1,981	8,711
32	Stone, clay and glass products...	105	24	2,797	15,665	2,087	4,403	10,482	34,929	2,215	2,509	23,838
327	Concrete and plaster products.	66	13	995	6,038	615	1,307	3,318	15,028	1,259	964	10,643
33	Primary metal industries.....	56	34	3,905	24,832	3,234	6,828	18,720	48,117	2,747	3,346	30,102
336	Nonferrous foundries.....	22	10	637	4,002	558	1,195	3,169	6,442	(Z)	480	2,392
34	Fabricated metal products.....	229	108	13,338	80,225	10,456	21,346	56,105	132,416	5,600	12,889	112,803
344	Structural metal products.....	90	42	3,368	21,426	2,523	5,284	14,134	29,298	830	3,490	28,136
345	Screw machine products.....	19	7	376	1,964	305	713	1,473	3,927	(Z)	297	2,499
346	Metal stampings.....	24	18	2,101	12,069	1,695	3,343	8,879	21,226	779	2,066	16,762
347	Metal services, n.e.c.....	37	13	847	4,537	707	1,501	3,328	6,682	(Z)	618	3,372
348	Fabricated wire products, n.e.c.....	14	6	416	2,152	361	759	1,568	3,655	(Z)	434	3,011
349	Fabricated metal products, n.e.c.....	24	13	3,398	20,492	2,716	5,468	14,433	34,886	2,076	3,241	31,887
35	Machinery, except electrical... Construction and like equipment.....	261	87	16,228	106,494	10,315	21,446	59,790	167,970	6,374	17,394	136,632
353	Equipment.....	15	9	1,290	7,802	845	1,793	4,451	11,544	(Z)	1,369	10,627
354	Metalworking machinery.....	84	31	9,747	68,954	5,770	12,073	36,458	112,036	4,246	10,525	77,794
355	Special industry machinery....	34	15	1,118	6,927	776	1,664	4,188	11,773	500	1,367	10,748
356	General industrial machinery...	33	10	1,184	7,613	837	1,769	4,863	13,323	536	(D)	(D)
358	Service industry machines....	16	9	1,243	6,527	927	1,844	4,529	10,260	(Z)	1,259	9,947
36	Electrical machinery.....	50	33	12,646	73,684	8,256	16,663	40,532	133,262	2,614	8,972	81,665
364	Lighting and wiring devices...	14	7	1,007	5,612	763	1,592	3,583	11,337	(Z)	1,092	4,972
367	Electronic components.....	8	5	2,351	12,289	2,027	3,767	8,431	25,566	520	2,558	22,547
37	Transportation equipment.....	30	16	22,904	184,046	14,392	31,621	104,573	396,460	19,110	25,405	290,643
38	Instruments and related products	33	9	1,599	8,059	1,139	2,306	4,587	14,130	(Z)	1,128	9,120
384	Medical instruments and supplies.....	14	6	725	3,394	528	1,046	1,948	6,254	(Z)	655	4,796
39	Miscellaneous manufacturing....	117	39	5,780	28,631	4,302	8,598	17,805	39,719	1,479	(D)	(D)
394	Toys and sporting goods.....	23	9	2,570	11,976	1,826	3,585	6,687	15,439	621	2,168	15,808
398												
399	Miscellaneous manufactures....	63	19	2,126	9,948	1,671	3,376	6,612	14,626	(Z)	(D)	(D)
190												
--	Administrative and auxiliary ⁴ ...	-	-	7,601	53,138	-	-	-	-	-	6,720	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CLEVELAND SMSA (Consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio)												
	All industries, total ²	4,046	1,432	280,097	1,901,895	194,519	398,608	1,176,073	3,330,349	176,168	271,455	2,557,400
20	Food and kindred products.....	260	108	12,369	73,272	6,911	14,294	36,919	149,627	9,789	15,769	144,296
201	Meat products.....	46	18	1,312	7,610	991	1,920	4,769	9,873	504	2,552	19,146
202	Dairies.....	45	27	2,900	18,291	943	2,052	5,762	36,136	2,619	3,582	35,147
203	Canned and frozen foods.....	26	9	1,136	5,562	809	1,872	3,270	18,491	(Z)	(D)	(D)
205	Bakery products.....	48	22	3,595	20,503	2,072	4,230	11,432	31,521	510	4,382	30,946
208	Beverages.....	34	11	2,106	14,100	1,177	2,274	7,300	33,006	4,684	3,118	36,270
209	Miscellaneous foods and kindred products.....	35	15	1,013	5,750	683	1,449	3,394	14,788	604	1,177	11,636
22	Textile mill products.....	43	22	3,813	16,487	3,410	6,836	12,760	26,705	1,226	3,442	18,362
225	Knitting mills.....	14	11	2,404	9,741	2,193	4,284	7,964	13,876	725	2,025	11,224
23	Apparel and related products.....	116	44	8,440	37,247	6,408	11,941	22,509	96,734	521	8,665	65,205
233	Women's and misses' outerwear.....	25	18	2,638	12,366	1,923	3,562	6,090	29,165	(Z)	2,340	19,144
239	Fabricated textiles, n.e.c.....	57	12	805	3,066	646	1,218	1,998	5,390	(Z)	1,018	5,118
24	Lumber and wood products.....	81	14	959	4,795	759	1,542	3,468	7,662	597	1,475	8,885
243	Millwork and related products.....	27	7	353	2,083	244	472	1,254	3,509	(Z)	473	2,992
25	Furniture and fixtures.....	107	24	3,393	18,919	2,653	5,016	12,914	43,139	2,528	3,967	38,288
251	Household furniture.....	57	13	1,408	6,960	1,147	2,032	4,809	13,072	(Z)	1,528	12,890
254	Partitions and fixtures.....	32	7	1,603	9,655	1,219	2,426	6,761	26,505	2,078	2,090	22,646
26	Paper and allied products.....	63	41	5,499	34,101	4,160	8,432	22,336	54,433	3,484	4,953	44,512
264	Paper and paperboard products.....	29	15	2,508	16,809	1,802	3,845	10,447	26,257	2,046	2,310	21,951
27	Printing and publishing.....	522	113	14,252	95,585	9,290	18,594	54,071	177,887	5,679	14,374	142,618
271	Newspapers.....	45	16	2,919	23,817	1,663	3,122	11,191	41,326	740	3,353	39,974
272	Periodicals.....	37	9	1,334	8,926	401	722	2,283	22,195	(Z)	1,094	15,949
273	Books.....	22	7	1,138	7,935	817	1,667	5,069	17,612	913	1,133	9,023
275	Commercial printing.....	319	52	4,306	28,293	3,283	6,475	19,659	44,694	1,676	4,237	36,290
278	Bookbinding and related work.....	22	7	648	3,290	548	1,111	2,520	6,236	(Z)	599	4,446
279	Printing trades services.....	54	15	683	5,031	463	910	3,538	6,931	(Z)	745	6,457
28	Chemicals and allied products.....	254	94	13,371	87,970	8,052	16,231	44,371	195,491	11,775	14,457	160,462
281	Basic chemicals.....	43	20	3,751	24,642	2,416	4,730	14,555	50,649	6,188	4,335	44,516
282	Fibers, plastics, rubbers.....	11	8	2,333	12,173	1,976	4,012	9,624	28,717	1,444	2,247	18,787
284	Cleaning and toilet goods.....	52	10	625	3,976	241	516	1,146	9,260	(Z)	638	7,040
285	Paints and allied products.....	59	25	3,201	21,569	1,621	3,374	8,847	49,581	1,288	3,751	53,486
289	Miscellaneous chemical products.....	70	24	2,894	22,373	1,380	2,722	8,210	50,133	2,287	2,764	29,893
29	Petroleum and coal products.....	43	22	1,815	12,442	1,115	2,230	7,068	43,540	2,203	1,726	32,613
30	Rubber and plastics products, n.e.c.....	95	40	5,929	32,787	4,630	9,432	22,331	53,893	3,377	4,699	33,903
306	Rubber products, n.e.c.....	22	11	3,985	23,561	3,103	6,504	16,418	35,492	1,119	3,221	20,859
32	Stone, clay and glass products.....	146	49	4,127	25,166	3,213	6,575	17,904	55,691	3,832	4,237	42,237
323	Products of purchased glass.....	13	3	297	1,721	251	468	1,293	3,177	(Z)	426	3,597
327	Concrete and plaster products.....	69	19	1,240	8,662	823	1,765	5,281	18,667	2,217	1,327	17,047
329	Nonmetallic mineral products.....	36	17	1,444	7,915	1,164	2,386	5,791	17,255	843	(D)	(D)
33	Primary metal industries.....	205	110	36,514	263,061	29,907	60,556	203,263	505,406	54,893	35,587	373,371
331	Steel rolling and finishing.....	18	15	15,218	116,412	12,743	24,965	93,272	269,887	45,062	13,966	183,763
332	Iron and steel foundries.....	25	19	7,052	49,299	5,896	12,252	39,426	83,305	2,038	(D)	(D)
334	Secondary nonferrous metals.....	19	12	1,025	7,415	770	1,782	4,682	18,978	675	(D)	(D)
335	Nonferrous rolling and drawing.....	13	11	3,950	27,544	3,037	6,096	19,388	45,803	2,656	4,018	47,120
336	Nonferrous foundries.....	70	29	4,780	30,026	3,867	8,030	22,355	42,145	1,924	4,932	35,000
339	Primary metal industries, n.e.c.....	60	24	4,489	32,365	3,594	7,431	24,140	45,288	2,532	4,567	32,667
34	Fabricated metal products.....	713	284	33,373	209,082	25,818	53,568	144,356	362,417	14,412	31,567	279,274
342	Cutlery, hand tools, hardware.....	49	19	2,170	12,379	1,630	3,320	8,582	25,638	838	2,132	16,969
343	Plumbing and heating, except electric.....	35	17	3,095	20,135	2,221	4,410	11,962	38,341	1,707	(D)	(D)
344	Structural metal products.....	161	60	5,865	35,136	4,577	9,334	25,231	62,052	2,314	4,497	39,849
345	Screw machine products.....	127	56	8,977	58,028	7,203	15,186	42,092	100,312	3,705	8,680	80,193
346	Metal stampings.....	93	44	3,525	22,250	2,838	6,154	16,012	38,136	1,596	4,199	36,607
348	Fabricated wire products, n.e.c.....	43	15	1,494	8,834	1,164	2,326	6,012	15,313	545	3,105	28,891
349	Fabricated metal products, n.e.c.....	63	37	5,954	40,237	4,326	9,034	25,331	60,211	2,546	(D)	(D)
35	Machinery, except electrical.....	894	244	37,347	265,514	26,729	55,980	172,054	489,057	23,318	37,178	371,662
353	Construction and like equipment.....	55	27	6,166	44,318	3,941	8,165	25,107	81,230	2,154	7,623	74,553
354	Metalworking machinery.....	328	97	14,577	107,859	10,700	22,644	71,993	185,224	6,997	13,921	131,762
355	Special industry machinery.....	68	31	5,005	36,008	3,360	7,163	21,991	61,689	1,720	4,200	39,096
356	General industrial machinery.....	117	35	4,256	28,108	3,122	6,446	18,164	51,238	1,974	3,487	31,690
358	Service industry machine.....	22	7	447	3,314	280	612	1,715	7,885	(Z)	372	4,365
36	Electrical machinery.....	185	104	22,484	142,195	16,053	31,954	87,849	289,677	9,490	21,726	234,472
361	Electric distribution products.....	24	14	2,199	12,881	1,417	2,775	6,435	23,051	612	(D)	(D)
362	Electric industrial apparatus.....	44	27	9,121	64,414	6,348	12,764	39,976	120,971	3,318	7,893	93,773
363	Household appliances.....	15	9	1,327	8,340	995	1,911	5,316	24,558	(Z)	1,521	24,486
364	Lighting and wiring devices.....	55	27	4,492	26,789	3,444	6,856	17,759	66,251	1,064	4,022	46,738
367	Electronic components.....	23	13	1,827	9,281	1,378	2,628	6,039	13,640	2,343	824	7,481
369	Electrical products, n.e.c.....	12	7	2,523	15,951	1,794	3,581	9,616	31,924	1,579	4,351	39,574

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new* (\$1,000)	All employ- ment, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-houra (1,000)	Wages (\$1,000)				
CLEVELAND SMSA—Continued (Consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio)												
37	Transportation equipment.....	103	54	47,614	362,433	37,519	79,857	271,551	662,712	23,813	46,169	495,335
371	Motor vehicles and equipment.....	60	38	37,902	291,467	31,256	67,610	232,067	565,139	20,642	33,057	386,903
372	Aircraft and parts.....	30	14	9,526	69,750	6,119	11,959	38,697	94,714	3,104	12,609	104,104
38	Instruments and related products.....	57	19	3,799	22,005	1,908	3,629	8,525	37,866	4,129 (D)	3,588	27,471
382	Mechanical measuring devices.....	17	6	2,908	17,020	1,292	2,402	5,757	28,857	(D)	2,530	18,973
384	Medical instruments and supplies.....	23	6	457	2,278	343	670	1,394	5,334	(Z)	491	3,665
39	Miscellaneous manufacturing, including ordnance ³	146	46	8,398	50,677	5,908	11,611	31,479	85,403	1,097	5,608	44,066
393	Musical instruments and parts.....	5	4	415	2,406	371	756	2,052	3,490	(Z)	335	2,094
395	Pens, pencils and office supplies.....	21	4	575	2,758	341	637	1,393	5,496	(Z)	575	5,086
398	Miscellaneous manufactures.....	94	35	7,176	44,468	5,015	9,903	27,398	74,724	885 (D)	(D)	(D)
399		191	--	--	--	--	--	--	--	--	--	--
--	Administrative and auxiliary ⁴	-	-	16,154	145,103	-	-	-	-	-	12,369	-
COLUMBUS SMSA (Consists of Delaware, Franklin, and Pickaway Counties, Ohio)												
	All industries, total ²	960	351	80,545	511,473	54,127	107,929	304,383	984,354	57,835	72,991	679,786
20	Food and kindred products.....	131	66	8,376	43,921	4,609	9,472	22,621	101,361	6,153	9,627	93,148
201	Meat products.....	18	9	1,278	8,162	949	1,866	5,631	12,444	(Z)	2,099	15,116
202	Dairies.....	16	12	1,344	7,225	599	1,271	2,986	23,384	1,987	1,846	18,479
205	Bakery products.....	31	16	3,000	14,519	1,416	2,758	6,705	23,570	672	3,366	30,554
208	Beverages.....	15	10	702	4,002	327	682	1,527	9,081	1,587	628	6,859
209	Miscellaneous foods and kindred products.....	21	10	1,159	5,831	701	1,484	3,299	20,545	760	927	14,234
23	Apparel and related products.....	31	9	586	1,933	497	875	1,377	3,478	(Z)	652	2,329
232	Men's and boys' furnishings.....	6	4	306	1,139	260	457	774	1,462	(Z)	373	1,381
25	Furniture and fixtures.....	37	11	1,235	7,112	999	2,000	5,225	11,416	(Z)	924	8,648
251	Household furniture.....	14	5	552	2,677	460	889	2,032	5,944	(Z)	535	5,656
254	Partitions and fixtures.....	13	6	606	4,161	486	998	3,000	5,029	(Z)	314	2,261
26	Paper and allied products.....	20	13	1,574	9,148	1,144	2,349	5,759	17,683	605 (D)	(D)	(D)
264	Paper and paperboard products.....	10	6	580	3,412	378	769	1,702	6,590	(Z)	609	6,037
27	Printing and publishing.....	152	34	4,779	29,867	2,672	5,377	17,540	57,327	5,961	4,916	42,786
271	Newspapers.....	23	7	1,781	12,322	937	2,019	7,497	20,456	(D)	2,100	16,861
275	Commercial printing.....	91	18	1,566	9,592	1,156	2,186	6,697	16,840	638	1,437	10,555
28	Chemicals and allied products.....	68	21	3,033	18,949	1,684	3,454	8,490	47,715	8,054 (D)	(D)	(D)
281	Basic chemicals.....	13	3	443	2,369	331	681	1,748	4,396	(Z)	417	3,521
285	Paints and allied products.....	6	4	361	2,344	181	426	885	5,449	(Z)	276	3,152
287	Agricultural chemicals.....	7	4	340	1,352	269	541	943	3,927	(Z)	415	4,265
30	Rubber and plastics products, n.e.c.....	22	15	1,786	9,134	1,527	2,878	6,791	23,266	1,474 (D)	(D)	(D)
31	Leather and leather products.....	13	8	1,732	6,746	1,457	2,527	4,544	13,223	(Z)	1,955	10,138
32	Stone, clay and glass products.....	66	24	3,978	23,298	3,193	6,680	17,289	51,429	3,009	3,691	42,012
327	Concrete and plaster products.....	41	12	833	5,322	558	1,230	2,901	11,735	1,259	812	9,216
33	Primary metal industries.....	28	11	2,879	18,392	2,420	4,772	14,393	26,009	3,846 (D)	2,280	14,228
332	Iron and steel foundries.....	8	6	2,444	15,910	2,080	4,097	12,772	22,539	(D)	1,806	10,835
34	Fabricated metal products.....	94	37	8,102	54,483	6,313	12,870	39,599	117,938	6,538 (Z)	9,495	93,030
344	Structural metal products.....	38	11	1,312	7,858	895	1,761	4,910	12,691	(Z)	1,685	13,121
349	Fabricated metal products, n.e.c.....	12	8	774	4,097	642	1,302	2,915	8,707	585	517	5,480
35	Machinery, except electrical.....	138	42	8,545	51,562	6,421	12,826	37,047	99,251	3,460 (Z)	10,246	81,386
352	Farm machinery and equipment.....	8	4	307	1,602	238	499	1,178	3,896	(Z)	311	2,810
354	Metalworking machinery.....	28	7	834	5,716	549	1,175	3,404	7,940	(Z)	471	3,777
356	General industrial machinery.....	18	7	3,885	22,910	3,054	6,235	17,534	44,760	(D)	(D)	(D)
358	Service industry machines.....	10	6	1,662	10,162	1,143	2,326	6,707	21,349	(Z)	1,487	14,604
359	Miscellaneous machinery.....	50	8	493	2,949	392	827	2,198	4,271	(Z)	552	4,414
36	Electrical machinery.....	35	16	11,649	70,889	9,093	17,550	49,257	160,492	6,759 (D)	(D)	(D)
37	Transportation equipment.....	32	16	14,890	114,457	8,267	16,685	51,601	181,685	7,342 (D)	(D)	(D)
38	Instruments and related products.....	16	9	1,978	13,360	1,220	2,428	7,133	18,874	544 (D)	(D)	(D)
39	Miscellaneous manufacturing, including ordnance ³	40	11	1,694	9,972	1,239	2,449	6,611	27,563	816	1,007	8,555
398	Miscellaneous manufactures.....	29	11	1,639	9,753	1,196	2,364	6,439	27,060	808	946	8,299
399		190	--	--	--	--	--	--	--	--	--	--
--	Administrative auxiliary ⁴	-	-	1,983	16,004	-	-	-	-	-	850	-

See footnotes at end of table.

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958--Continued

(See text for explanation of column captions)

Code	Industry groups	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DAYTON SMSA (Consists of Greene, Miami, Montgomery and Preble Counties, Ohio)												
	All industries, total ²	1,024	381	104,689	722,157	78,327	163,771	503,388	1,297,278	64,528	97,189	912,079
20	Food and kindred products.....	96	38	5,605	33,809	3,135	6,691	16,717	74,133	5,004	6,338	61,689
201	Meat products.....	16	8	1,444	9,272	1,108	2,384	6,633	21,203	1,015	1,691	12,974
202	Dairies.....	20	11	1,557	10,545	430	983	2,474	22,127	2,834	1,674	14,831
205	Bakery products.....	17	8	1,853	10,189	1,206	2,482	6,122	20,605	(Z)	2,003	25,471
208	Beverages.....	12	4	390	2,345	139	280	600	6,042	668	449	3,802
23	Apparel and related products....	25	7	506	1,634	477	851	1,370	5,513	(Z)	423	1,937
24	Lumber and wood products.....	40	12	742	3,618	574	1,208	2,349	8,153	503	607	3,980
243	Millwork and related products..	16	6	382	2,094	273	583	1,207	5,753	(Z)	270	2,038
25	Furniture and fixtures.....	25	10	1,171	6,291	865	1,746	4,459	9,157	(Z)	977	6,876
251	Household furniture.....	13	5	804	4,358	607	1,203	3,237	6,404	(Z)	679	4,868
26	Paper and allied products.....	29	23	4,645	29,504	3,573	8,115	20,626	50,930	4,567	(D)	(D)
264	Paper and paperboard products..	15	11	2,595	15,793	1,928	4,081	10,213	28,401	1,866	2,254	18,873
27	Printing and publishing.....	132	33	9,709	66,294	7,437	15,552	50,738	109,660	10,282	9,006	87,249
271	Newspapers.....	21	5	1,215	7,224	656	1,252	4,148	14,991	(Z)	1,139	12,489
275	Commercial printing.....	79	17	6,316	43,498	5,326	11,267	35,675	63,409	8,736	5,013	45,216
279	Printing trades services.....	13	4	257	1,911	185	379	1,446	2,713	(Z)	314	2,826
28	Chemicals and allied products....	42	18	2,792	17,769	1,461	2,962	7,755	47,041	2,941	1,430	16,713
284	Cleaning and toilet goods.....	10	3	418	2,610	271	594	1,553	5,533	(Z)	385	4,789
285	Paints and allied products.....	9	6	563	3,105	316	626	1,676	8,961	(Z)	488	7,635
29	Petroleum and coal products.....	11	3	281	1,472	141	239	597	1,595	(Z)	249	3,039
30	Rubber and plastics products, n.e.c.....	33	17	7,738	53,956	6,086	12,481	39,562	97,050	5,817	6,971	71,280
32	Stone, clay and glass products..	54	18	2,006	13,105	1,393	2,980	7,713	30,557	1,389	1,820	22,935
327	Concrete and plaster products..	31	10	997	6,808	611	1,371	3,518	13,717	1,007	921	8,980
33	Primary metal industries.....	41	20	2,857	19,010	2,420	5,113	15,065	31,129	1,025	2,675	19,654
332	Iron and steel foundries.....	16	11	1,850	12,299	1,604	3,393	10,258	17,512	(Z)	1,602	10,644
336	Nonferrous foundries.....	16	4	586	3,629	464	910	2,481	5,908	(Z)	591	4,630
34	Fabricated metal products.....	120	37	3,504	20,858	2,802	5,966	14,669	40,139	1,717	2,492	22,078
344	Structural metal products.....	33	13	912	4,761	652	1,289	2,849	10,676	(Z)	623	5,297
345	Screw machine products.....	17	5	278	1,685	227	540	1,222	3,171	(Z)	204	1,666
347	Metal services, n.e.c.....	23	4	772	4,585	739	1,726	4,219	7,397	536	300	1,999
349	Fabricated metal products, n.e.c.....	13	3	434	2,673	345	728	1,928	5,753	(Z)	332	2,714
35	Machinery, except electrical... 252	92	28,354	203,660	22,281	45,215	151,499	346,411	13,362	25,526	257,177	
354	Metalworking machinery..... 135	49	4,456	36,150	3,410	7,730	25,421	53,789	2,611	3,874	39,782	
355	Special industry machinery... 18	9	3,040	19,151	2,082	3,925	11,519	39,612	1,016	2,277	23,260	
356	General industrial machinery... 28	18	2,243	14,802	1,512	3,128	9,102	26,628	727	2,264	23,260	
36	Electrical machinery..... 46	21	22,886	164,748	18,032	38,053	121,705	310,033	11,405	23,087	211,122	
37	Transportation equipment..... 29	18	7,774	56,712	6,337	13,780	43,216	119,123	5,508	7,180	72,861	
39	Miscellaneous manufacturing.... 26	7	801	4,639	456	928	2,156	7,401	(Z)	758	4,111	
398	Miscellaneous manufactures.... 16	6	698	4,214	380	779	1,867	6,669	(Z)	459	2,293	
399	Administrative and auxiliary ⁴ ... -	-	-	2,219	20,201	-	-	-	-	-	1,997	-
TOLEDO SMSA (Consists of Lucas and Wood Counties, Ohio and Monroe County, Michigan)												
	All industries, total ²	992	327	71,065	487,303	50,006	102,729	313,086	921,934	42,883	70,838	715,535
20	Food and kindred products.....	109	44	4,791	27,948	2,790	5,738	14,097	69,746	2,505	5,813	66,579
201	Meat products.....	14	3	354	2,103	265	551	1,434	5,661	(Z)	650	4,731
202	Dairies.....	13	10	1,088	6,663	354	779	1,911	11,940	(Z)	1,252	11,847
204	Grain mill products.....	21	3	922	5,456	816	1,679	4,118	27,569	(Z)	1,239	27,158
205	Bakery products.....	15	11	839	4,846	482	1,022	2,642	8,129	(Z)	979	8,366
208	Beverages.....	10	6	574	3,523	224	469	1,199	6,915	601	548	4,841
209	Miscellaneous foods and kindred products.....	22	6	677	3,694	370	651	1,498	7,489	(Z)	674	5,869
23	Apparel and related products....	20	7	456	1,436	412	631	1,204	1,980	(Z)	613	1,657
24	Lumber and wood products.....	43	9	601	2,783	420	741	1,679	5,705	(Z)	831	8,787
25	Furniture and fixtures.....	20	8	652	4,176	535	1,048	3,083	9,165	(Z)	615	5,266
251	Household furniture.....	11	3	394	2,491	339	689	1,929	5,851	(Z)	372	2,691
26	Paper and allied products.....	29	23	3,215	19,410	2,718	5,978	15,753	32,762	1,598	3,648	31,571
265	Paperboard containers and boxes.....	13	12	1,482	8,823	1,212	2,533	6,733	12,637	(Z)	(D)	(D)
27	Printing and publishing.....	115	16	2,078	13,832	1,164	2,264	7,925	20,264	2,913	2,147	18,565
275	Commercial printing.....	72	6	599	3,549	439	812	2,538	5,243	(Z)	696	5,309
28	Chemicals and allied products....	39	12	2,034	12,968	1,085	2,233	7,059	35,965	1,070	1,737	24,248
284	Cleaning and toilet goods.....	9	4	674	3,470	90	173	467	9,341	(Z)	219	4,203
29	Petroleum and coal products.....	17	5	2,052	17,069	1,443	2,786	11,229	57,883	3,524	2,393	39,400
291	Petroleum refining.....	7	4	1,915	16,064	1,372	2,640	10,784	55,073	3,437	2,272	37,664

See footnote at end of table.

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958--Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
TOLEDO SMSA--Continued (Consists of Lucas and Wood Counties, Ohio and Monroe County, Michigan)												
30	Rubber and plastics products, n.e.c.....	33	13	1,051	5,236	850	1,700	3,610	9,276	805	628	4,418
306	Rubber products, n.e.c.....	10	7	631	3,133	502	1,004	2,211	4,750	(Z)	(D)	(D)
307	Plastics products, n.e.c.....	23	6	420	2,103	348	696	1,399	4,526	(Z)	(D)	(D)
32	Stone, clay and glass products.	65	18	8,037	60,571	6,854	14,207	50,706	158,546	6,331	8,483	136,345
327	Concrete and plaster products	38	3	317	2,098	213	424	1,156	4,477	(Z)	379	3,159
33	Primary metal industries.....	44	25	4,632	30,252	4,053	8,288	25,171	59,059	1,945	3,934	38,555
332	Iron and steel foundries.....	11	10	1,416	8,226	1,299	2,510	7,092	13,398	1,000	1,242	8,571
34	Fabricated metal products.....	145	51	6,766	42,743	5,443	11,005	31,380	69,604	2,208	6,284	50,684
344	Structural metal products....	37	10	907	5,619	696	1,403	3,728	8,735	(Z)	674	6,827
346	Metal stampings.....	35	24	3,566	22,903	2,949	5,967	17,246	38,674	1,260	2,785	22,359
347	Metal services, n.e.c.....	21	6	373	1,844	335	631	1,510	2,985	(Z)	305	2,295
349	Fabricated metal products, n.e.c.....	11	2	839	5,559	714	1,446	4,566	6,932	(Z)	930	5,957
35	Machinery, except electrical...	196	48	7,616	51,183	4,728	9,613	29,042	86,251	3,295	7,797	70,436
354	Metalworking machinery.....	74	25	1,816	13,277	1,424	3,052	9,847	21,045	786	1,744	13,403
355	Special industry machinery...	19	3	278	1,932	217	460	1,383	3,306	(Z)	179	1,528
356	General industrial machinery.	36	8	2,503	17,229	1,373	2,710	8,530	31,957	1,360	2,425	27,759
358	Service industry machines....	13	6	607	3,508	385	734	1,836	6,315	(Z)	497	4,247
359	Miscellaneous machinery.....	39	1	480	2,822	368	718	1,980	5,103	(Z)	666	4,549
37	Transportation equipment.....	38	23	16,378	115,101	13,726	28,858	90,958	222,121	13,362	(D)	(D)
371	Motor vehicles and equipment.	28	17	15,363	109,029	13,042	27,525	87,073	211,075	13,158	(D)	(D)
39	Miscellaneous manufacturing, including ordnance ²	34	7	871	3,922	707	1,332	2,564	8,342	(Z)	791	6,185
398	Miscellaneous manufactures...	20	4	271	1,555	230	497	1,094	2,732	(Z)	456	3,474
399												
190												
--	Administrative and auxiliary ⁴ ..	-	-	5,211	47,393	-	-	-	-	-	4,203	-
YOUNGSTOWN-WARREN SMSA (Consists of Mahoning and Trumbull Counties, Ohio)												
	All industries, total ²	562	215	68,331	472,043	55,351	108,976	356,947	886,389	57,438	76,437	729,376
20	Food and kindred products.....	65	26	2,284	11,561	1,263	2,429	5,662	24,017	649	2,560	21,303
202	Dairies.....	14	8	728	4,192	364	792	2,087	10,305	(Z)	782	6,919
205	Bakery products.....	16	7	855	4,692	446	918	2,124	8,290	(Z)	1,122	9,601
208	Beverages.....	10	6	283	1,376	116	179	445	2,648	(Z)	368	2,621
23	Apparel and related products...	10	3	459	1,891	415	729	1,211	3,128	(Z)	413	1,760
24	Lumber and wood products.....	33	5	252	835	206	386	669	1,673	(Z)	288	1,526
27	Printing and publishing.....	59	10	1,111	6,603	634	1,189	3,718	12,131	(Z)	1,210	11,482
275	Commercial printing.....	35	5	310	1,753	237	436	1,245	2,579	(Z)	397	3,206
30	Rubber and plastics products, n.e.c.....	12	5	1,104	7,536	796	1,696	5,088	12,860	(Z)	1,328	10,995
32	Stone, clay and glass products.	57	19	2,085	11,312	1,805	3,640	9,126	20,294	1,059	2,243	19,075
326	Pottery and related products.	9	5	796	4,018	720	1,528	3,440	5,776	(Z)	1,035	5,347
327	Concrete and plaster products	28	4	323	1,738	234	447	1,193	3,108	(Z)	371	3,784
33	Primary metal industries.....	41	35	37,588	274,971	32,440	63,648	223,539	538,285	41,062	41,362	409,405
331	Steel rolling and finishing..	21	16	29,598	217,953	25,501	48,782	178,449	432,565	33,413	34,431	351,421
335	Nonferrous rolling and drawing.....	12	12	7,156	51,255	6,256	13,528	40,669	96,393	7,305	6,115	52,391
34	Fabricated metal products.....	104	50	5,583	34,912	4,361	8,189	24,380	69,742	3,191	8,331	81,394
344	Structural metal products....	60	24	2,912	17,598	2,249	4,218	12,181	35,165	1,930	4,232	38,668
346	Metal stampings.....	10	7	681	4,978	502	1,023	3,082	8,291	(Z)	825	6,701
347	Metal services, n.e.c.....	11	5	345	2,162	291	562	1,724	4,585	(Z)	266	2,062
349	Fabricated metal products, n.e.c.....	8	6	1,008	5,932	810	1,404	4,591	10,348	(Z)	1,871	21,399
35	Machinery, except electrical...	82	23	5,117	38,272	3,779	8,093	26,041	56,119	5,679	4,411	42,355
354	Metalworking machinery.....	36	11	3,269	25,082	2,644	5,797	19,158	34,845	4,666	2,617	27,747
356	General industrial machinery.	11	4	1,033	7,941	567	1,169	3,859	11,999	551	894	6,743
36	Electrical machinery.....	20	11	3,774	21,798	3,081	5,902	16,751	60,095	1,827	4,635	51,225
37	Transportation equipment.....	17	10	4,802	33,915	3,981	7,957	26,792	50,212	2,186	4,521	41,306
--	Administrative and auxiliary ⁴ ..	-	-	1,061	-	-	-	-	-	-	746	-

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

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES



MC63(P)-S37

preliminary report

Area series

OKLAHOMA

Value added by manufacturing in 1963 in the State of Oklahoma amounted to \$965 million, an increase of 17 percent from 1962 and 33 percent from 1958. Of this total, \$149 million was contributed by the food and kindred products industries and \$112 million by the petroleum and coal products industries, the two leading industry groups in the State.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	2,544	631	97,125	547,995	62,611	127,088	293,618	965,305	63,747	105	133
1962 ³	(NA)	(NA)	^r 90,896	^r 479,282	58,724	117,298	263,342	825,927	46,489	98	114
1961 ³	(NA)	(NA)	^r 90,566	^r 463,684	58,582	116,427	253,519	811,273	44,757	98	112
1960 ³	(NA)	(NA)	^r 92,231	^r 464,487	58,841	119,230	252,164	801,040	65,747	100	110
1959 ³	(NA)	(NA)	^r 92,356	^r 464,813	60,104	121,627	256,041	772,876	85,121	100	107
1958.....	2,366	572	^r 92,429	^r 451,479	59,739	118,407	248,548	724,998	61,927	100	100

(NA) Not available. ^rRevised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

July 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
OKLAHOMA, TOTAL.....	2,544	631	97,125	547,995	62,611	127,088	293,618	965,305	63,747	92,429	724,998
STANDARD METROPOLITAN STATISTICAL AREAS											
Fort Smith ⁴	232	90	12,109	46,896	10,068	19,348	34,226	94,231	4,533	9,710	60,392
Portion in Arkansas.....	195	85	11,695	45,775	9,721	18,682	33,328	91,090	4,345	9,008	57,216
Portion in Oklahoma.....	37	5	414	1,121	347	666	898	3,141	(Z)	702	3,176
Lawton ⁵	40	13	965	3,927	668	1,370	2,446	8,082	(Z)	841	6,248
Oklahoma City ⁶	681	166	27,316	153,600	16,281	33,579	75,168	291,739	21,364	18,732	144,084
Tulsa ⁷	687	203	29,716	173,522	19,830	40,120	100,192	284,454	15,333	33,642	252,162
COUNTIES ¹											
Adair.....	12	4	423	795	327	515	712	1,497	(Z)	436	1,144
Bryan.....	21	5	255	996	182	361	681	3,084	(Z)	275	1,598
Canadian.....	16	3	391	2,412	277	567	1,471	4,449	(Z)	368	4,033
Carter.....	44	13	1,125	4,719	817	1,659	3,168	10,608	(Z)	631	4,227
Choctaw.....	22	6	511	1,430	452	892	1,228	3,351	(Z)	317	1,012
Cleveland.....	26	7	624	2,957	303	703	1,253	6,112	(Z)	412	3,831
Comanche.....	48	13	965	3,927	668	1,370	2,446	8,082	(Z)	835	6,248
Creek.....	48	11	1,698	7,321	1,417	2,825	5,528	14,507	997	1,557	12,118
Custer.....	23	5	394	1,383	290	616	941	2,795	(Z)	288	2,030
Garfield.....	63	16	1,800	9,384	1,171	2,455	5,776	31,952	1,307	2,203	26,521
Grady.....	42	11	748	2,792	650	1,278	2,137	6,778	(Z)	560	4,637
Kay.....	61	16	4,821	33,236	2,538	5,014	14,792	64,642	3,031	5,210	53,169
Lincoln.....	21	4	254	1,191	205	456	897	1,848	(Z)	215	1,582
Logan.....	16	1	520	1,735	440	912	1,331	3,146	(Z)	596	2,691
McCurtain.....	31	9	1,204	4,384	1,106	2,500	3,917	8,292	780	1,091	4,345
Mayes.....	18	5	682	5,160	479	1,062	3,062	15,027	6,047	499	10,288
Muskogee.....	59	25	2,871	13,096	2,130	4,233	8,328	27,979	1,211	2,526	22,315
Oklahoma.....	639	156	26,301	148,231	15,701	32,309	72,444	281,178	20,662	18,320	140,253
Okmulgee.....	36	11	2,465	15,097	2,017	4,029	11,989	27,320	573	2,064	19,927
Osage.....	19	3	512	2,087	454	842	1,683	4,853	(Z)	401	4,144
Fayne.....	33	8	735	3,584	505	1,105	2,510	8,313	680	894	9,234
Pittsburg.....	23	6	909	3,137	737	1,530	2,272	7,443	(Z)	932	4,928
Pontotoc.....	32	14	1,186	5,186	846	1,704	3,306	15,434	(Z)	1,296	13,164
Pottawatomie.....	37	8	822	4,286	590	1,209	2,558	7,780	(Z)	2,142	19,982
Rogers.....	10	3	273	1,297	211	394	868	4,943	(D)	175	943
Seminole.....	30	7	614	2,044	539	1,034	1,624	4,100	(Z)	470	2,444
Tulsa.....	620	189	27,506	164,014	17,959	36,453	92,981	265,094	14,232	32,075	240,044
Washington.....	31	9	6,747	55,977	1,356	2,701	6,632	16,570	2,238	7,066	16,414

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^R Revised.

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Fort Smith Standard Metropolitan Statistical Area consists of Crawford and Sebastian Counties, Ark., and LeFlore and Sequoyah Counties, Okla.⁵The Lawton Standard Metropolitan Statistical Area is coextensive with Comanche County, Okla.⁶The Oklahoma City Standard Metropolitan Statistical Area consists of Canadian, Cleveland and Oklahoma Counties, Okla.⁷The Tulsa Standard Metropolitan Statistical Area consists of Creek, Osage, and Tulsa Counties, Okla.

1963 CENSUS OF MANUFACTURES

Table 3.--GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,544	631	97,125	547,995	62,611	127,088	293,618	965,305	63,747	^R 92,429	724,998
20	Food and kindred products.....	454	156	14,198	66,052	8,598	18,174	34,489	148,586	10,962	15,415	131,901
201	Meat products.....	88	28	3,083	15,880	2,496	5,360	11,090	35,610	3,187	3,977	32,687
202	Dairies.....	51	27	2,890	14,722	1,143	2,421	4,667	32,950	1,823	3,305	31,798
203	Canned and frozen foods.....	26	13	1,012	2,437	818	1,311	1,781	6,267	(Z)	951	4,658
204	Grain mill products.....	51	22	1,412	7,263	961	2,145	4,556	19,879	1,561	1,671	20,201
208	Beverages.....	74	21	1,576	6,371	689	1,423	2,183	16,420	1,207	1,332	9,815
209	Miscellaneous foods and kindred products.....	70	15	1,286	5,803	776	1,808	3,025	12,816	1,527	1,444	12,571
23	Apparel and related products...	73	40	4,709	13,720	4,334	8,184	11,697	25,210	(Z)	3,433	15,374
232	Men's and boys' furnishings...	15	15	2,372	6,780	2,201	4,142	5,938	11,512	(Z)	1,216	5,128
233	Women's and misses' outerwear	11	7	600	1,668	559	1,062	1,528	1,991	(Z)	379	1,360
239	Fabricated textiles, n.e.c.....	29	6	290	959	260	496	766	1,339	(Z)	242	924
24	Lumber and wood products.....	134	21	2,039	6,971	1,779	3,756	5,869	13,321	718	2,096	8,588
242	Sawmills and planing mills...	49	8	1,179	3,904	1,087	2,423	3,598	5,808	(Z)	1,261	4,590
243	Millwork and related products	47	7	470	1,945	354	677	1,339	3,614	(Z)	433	2,390
25	Furniture and fixtures.....	76	11	1,143	4,447	953	1,953	3,370	8,323	(Z)	1,112	6,126
251	Household furniture.....	47	7	884	3,172	749	1,572	2,367	5,725	(Z)	908	4,915
26	Paper and allied products.....	18	7	847	4,936	666	1,501	3,507	13,379	1,352	625	9,144
27	Printing and publishing.....	453	50	5,899	29,381	3,630	7,234	16,810	57,076	3,809	6,026	46,950
271	Newspapers.....	190	23	3,590	17,482	1,957	3,791	9,085	34,032	2,662	3,679	28,155
275	Commercial printing.....	187	15	1,551	7,826	1,126	2,338	5,097	13,378	889	1,888	10,649
28	Chemicals and allied products..	101	14	1,307	7,788	712	1,457	3,596	19,297	(D)	1,185	15,695
281	Basic chemicals.....	15	5	514	4,051	258	552	1,709	9,379	(D)	563	8,450
287	Agricultural chemicals.....	11	4	276	949	185	365	614	2,038	(Z)	171	1,444
29	Petroleum and coal products....	42	20	5,627	36,928	4,518	8,873	29,066	112,267	4,463	6,547	108,477
291	Petroleum refining.....	25	16	5,229	35,269	4,229	8,296	28,026	109,559	4,336	6,136	106,606
30	Rubber and plastics products, n.e.c.:											
307	Plastics products, n.e.c.....	21	7	702	3,080	536	1,123	2,049	5,239	(Z)	236	1,507
32	Stone, clay and glass products..	207	49	7,036	36,931	5,657	11,660	27,708	92,087	12,054	6,748	66,649
322	Pressed and blown glassware..	9	7	2,365	11,468	2,068	4,100	8,931	26,803	1,249	2,320	21,472
327	Concrete and plaster products	148	21	2,180	10,604	1,564	3,465	7,277	28,303	3,248	1,920	19,830
33	Primary metal industries.....	47	25	3,806	20,615	3,314	6,367	16,258	45,094	3,002	2,940	23,121
332	Iron and steel foundries.....	14	11	1,035	4,694	913	1,607	3,669	7,191	(Z)	853	5,024
336	Nonferrous foundries.....	15	4	298	1,464	257	544	1,113	2,685	(Z)	123	801
34	Fabricated metal products.....	232	73	8,214	46,120	6,230	13,154	30,006	84,366	2,388	7,862	72,344
344	Structural metal products.....	133	47	6,371	35,797	4,775	10,102	23,142	61,342	1,628	5,699	52,447
347	Metal services, n.e.c.....	27	6	390	1,756	343	656	1,360	2,700	(Z)	218	1,845
35	Machinery, except electrical... ³	386	88	10,309	57,086	7,538	15,193	36,605	105,958	5,464	9,334	77,190
352	Farm machinery and equipment.	16	6	369	1,899	290	576	1,247	3,382	(Z)	263	1,644
353	Construction and like equip-ment.....	93	33	4,792	27,633	3,552	7,166	18,448	50,775	1,465	5,332	46,428
355	Special industry machinery...	23	6	466	2,581	329	648	1,620	5,048	(Z)	603	3,799
356	General industrial machinery.	47	19	2,243	12,823	1,508	3,031	7,061	24,942	2,263	1,628	13,433
358	Service industry machines....	26	8	854	3,807	681	1,349	2,594	6,933	594	207	1,703
359	Miscellaneous machinery.....	163	10	1,110	5,481	902	1,788	4,306	9,069	601	1,112	8,634
36	Electrical machinery.....	53	18	9,409	57,219	4,891	9,628	23,663	106,702	3,536	2,161	19,088
37	Transportation equipment.....	87	25	7,727	49,151	5,836	11,821	30,544	65,391	7,746	10,162	71,496
371	Motor vehicles and equipment.	35	10	1,533	7,935	1,265	2,736	5,903	18,662	4,697	716	5,490
379	Transportation equipment, n.e.c.....	23	7	577	2,214	501	1,011	1,588	4,588	(Z)	923	4,225
39	Miscellaneous manufacturing, including ordnance ³	103	8	1,082	4,403	874	1,701	3,290	12,416	(Z)	892	6,025
--	Administrative and auxiliary ⁴ ..	-	-	10,117	84,984	-	-	-	-	-	12,562	-

- Represents zero. n.e.c. Not elsewhere classified. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^RRevised.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics

Part 1, Major Groups 20-28

Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

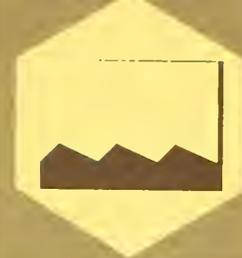
**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES



Manufact-338

**preliminary
report**

Area series | OREGON

Value added by manufacturing in 1963 in the State of Oregon amounted to \$1,570 million, an increase of 7 percent from 1962 and 28 percent from 1958. Of this total, \$691 million was contributed by the lumber and wood products industries and \$236 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	4,343	1,229	145,936	817,366	118,103	230,492	615,676	1,569,824	130,582	109	128
1962 ³	(NA)	(NA)	143,339	787,510	116,511	224,772	590,286	1,469,511	108,570	107	120
1961 ³	(NA)	(NA)	140,427	743,284	114,368	217,556	556,865	1,366,978	113,821	105	112
1960 ³	(NA)	(NA)	143,229	741,178	117,667	223,173	560,948	1,348,983	119,785	107	110
1959 ³	(NA)	(NA)	143,656	730,285	119,169	230,659	560,492	1,441,496	105,417	107	118
1958.....	5,025	1,151	133,976	648,614	110,188	209,427	499,817	1,222,224	123,339	100	100

(NA) Not available.
¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
²Includes expenditures for both plants in operation and for plants under construction but not in operation.
³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

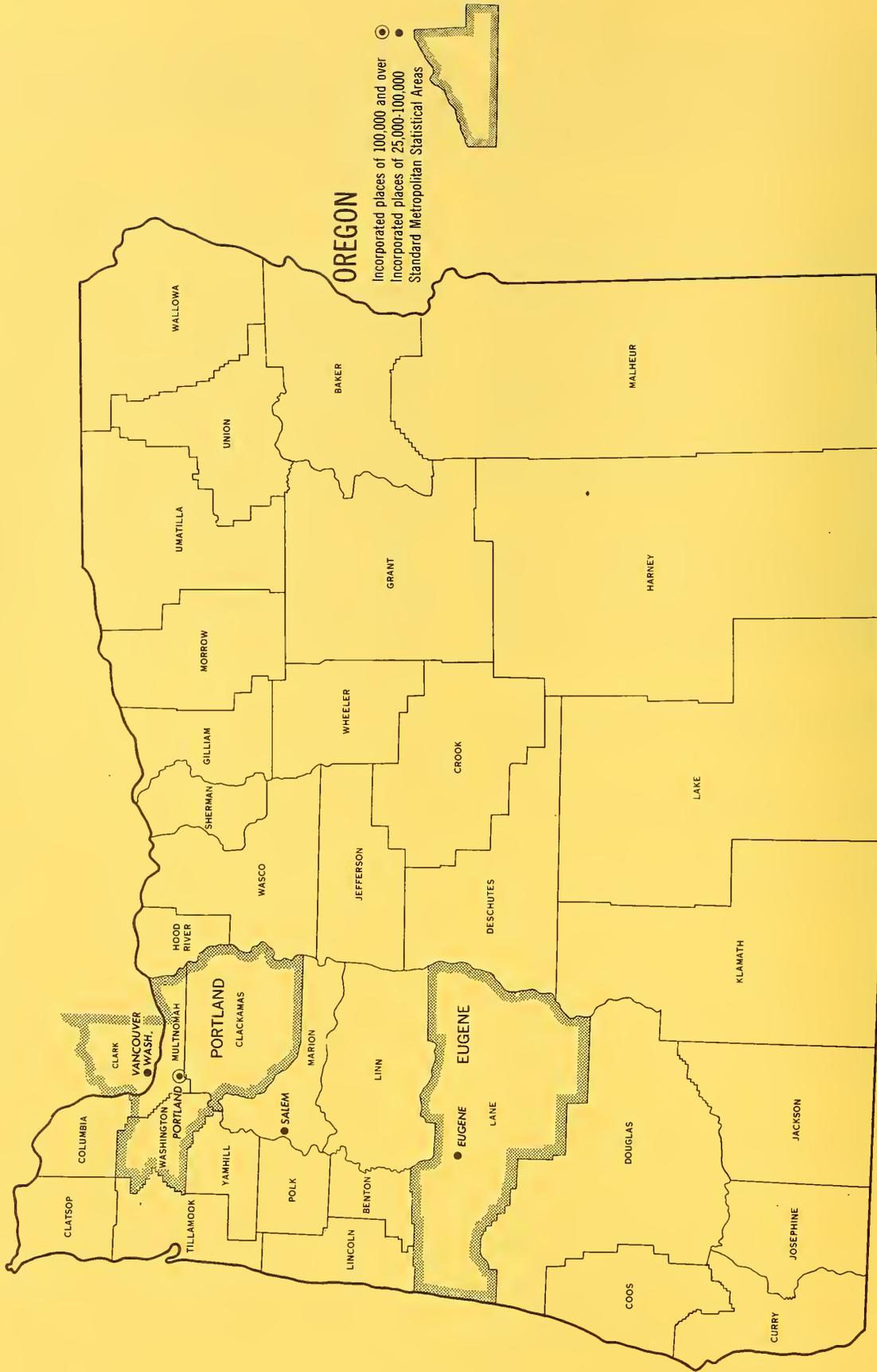


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
OREGON, TOTAL.....	4,843	1,229	145,936	817,366	118,103	230,492	615,676	1,569,824	130,582	133,976	1,222,224
STANDARD METROPOLITAN STATISTICAL AREAS											
Eugene ⁴	505	144	17,939	98,376	15,346	29,274	80,069	177,887	15,938	14,167	121,121
Portland ⁵	1,832	503	66,002	393,660	48,300	93,590	260,612	772,236	49,092	58,334	597,572
Portion in Washington.....	141	38	8,848	55,091	7,141	14,035	41,547	130,509	8,811	7,840	100,923
Portion in Oregon.....	1,691	465	57,154	338,569	41,159	79,555	219,065	641,777	40,281	50,494	496,649
COUNTIES ¹											
Baker.....	36	10	766	4,264	646	1,278	3,491	6,371	(2)	872	6,944
Benton.....	112	27	2,350	12,964	2,087	4,190	11,162	21,604	2,119	2,134	19,141
Clackamas.....	246	54	6,225	35,751	5,195	10,229	27,659	82,743	9,558	5,235	58,436
Clatsop.....	107	20	2,409	11,610	2,182	3,715	9,888	25,257	1,906	2,591	20,381
Columbia.....	90	13	2,242	12,682	2,006	3,909	10,824	30,985	2,548	1,925	29,327
Coos.....	208	43	6,434	35,401	5,734	11,384	29,782	69,300	7,148	6,785	56,239
Crook.....	23	8	1,210	6,194	1,108	2,167	5,391	8,705	(2)	1,410	8,436
Curry.....	85	20	1,947	10,349	1,769	3,540	9,548	23,314	1,345	1,682	15,379
Deschutes.....	66	12	1,628	8,813	1,456	2,842	7,576	13,556	1,343	1,594	13,352
Douglas.....	314	72	8,494	47,715	7,521	14,746	41,440	83,366	7,822	8,158	83,945
Grant.....	25	7	739	4,578	643	1,317	3,674	5,238	658	544	4,629
Hood River.....	34	8	994	5,693	750	1,442	3,572	11,632	895	1,123	5,237
Jackson.....	238	54	5,230	30,886	4,531	11,839	25,637	60,000	5,699	5,006	43,090
Josephine.....	123	32	2,578	14,310	2,323	4,393	12,506	25,917	2,853	2,346	18,231
Klamath.....	70	25	3,171	16,885	2,794	5,023	14,044	26,075	2,560	3,771	29,192
Lake.....	24	9	626	3,603	550	1,149	3,187	6,296	(2)	710	5,662
Lane.....	505	144	17,939	98,376	15,346	29,274	80,069	177,887	15,938	14,167	121,121
Lincoln.....	104	16	2,039	11,277	1,763	3,446	9,498	24,523	8,372	2,449	18,822
Linn.....	220	76	7,567	41,375	6,392	12,486	33,855	80,453	11,830	6,351	56,086
Malheur.....	29	4	1,266	5,106	1,160	2,131	4,231	11,642	769	864	8,610
Marion.....	240	52	6,103	29,875	5,141	9,548	23,464	67,801	5,431	5,320	45,424
Multnomah.....	1,240	363	42,354	255,020	29,908	58,242	162,475	471,249	26,181	40,962	390,272
Polk.....	79	22	2,832	14,391	2,519	4,539	12,072	29,549	1,571	2,698	26,313
Tillamook.....	91	12	1,542	8,058	1,389	2,585	7,046	14,050	1,791	2,445	15,250
Umatilla.....	75	19	2,445	11,321	1,949	3,880	8,742	24,758	949	2,549	25,682
Union.....	35	7	777	4,039	684	1,407	3,467	6,609	1,218	1,060	7,814
Wallowa.....	31	5	539	2,740	493	1,009	2,539	5,057	(2)	602	4,180
Wasco.....	29	9	1,078	6,035	747	1,398	3,583	28,010	1,637	669	5,640
Washington.....	205	48	8,575	47,798	6,056	11,084	28,931	87,735	4,542	4,297	47,871
Yamhill.....	124	27	2,059	9,939	1,669	3,141	7,353	18,528	1,544	1,890	15,625

(2) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for both plants in operation and for plants under construction but not in operation.

⁴The Eugene Standard Metropolitan Statistical Area is coextensive with Lane County, Oregon.

⁵The Portland Standard Metropolitan Statistical Area consists of Clackamas, Multnomah, and Washington Counties, Oregon; and Clark County, Wash.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ- ees, number	Value added by manufac- ture (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
20	All industries, total ²	4,843	1,229	145,936	817,366	118,103	230,492	615,676	1,569,824	130,582	133,976	1,222,224
20	Food and kindred products.....	509	172	20,165	99,579	14,929	27,326	64,156	236,197	13,353	19,555	199,289
201	Meat products.....	96	18	1,961	11,617	1,497	2,854	8,179	16,166	1,171	2,304	20,778
202	Dairies.....	90	28	2,507	15,304	1,007	1,962	5,669	30,842	3,376	3,114	34,507
203	Canned and frozen foods.....	115	65	8,535	33,055	7,687	13,416	27,179	80,501	4,343	7,889	63,719
204	Grain mill products.....	48	13	941	5,374	640	1,397	3,696	17,008	1,242	1,286	17,409
207	Candy and related products...	16	5	345	1,228	308	482	981	3,929	(Z)	277	1,948
208	Beverages.....	50	8	911	5,926	400	789	2,332	16,970	1,040	783	9,302
209	Miscellaneous foods and kindred products.....	35	10	758	3,855	494	865	1,943	13,329	510	600	8,255
22	Textile mill products.....	26	16	2,291	10,180	1,675	3,464	6,075	18,795	(Z)	2,228	8,127
23	Apparel and related products...	71	23	2,653	10,189	2,182	4,204	7,170	22,717	(Z)	2,533	14,267
233	Women's and misses' outerwear	17	7	789	3,267	565	1,051	1,801	6,877	(Z)	667	3,353
239	Fabricated textiles, n.e.c.....	41	11	1,021	3,930	831	1,624	2,730	8,072	(Z)	940	4,737
24	Lumber and wood products.....	2,411	621	71,014	389,219	63,875	126,573	338,949	691,233	67,560	68,019	557,156
241	Logging camps and contractors	1,435	167	13,015	67,125	11,569	24,271	60,251	131,129	22,220	11,278	103,326
242	Sawmills and planing mills...	590	256	28,456	156,242	25,800	49,422	136,048	261,114	24,297	32,479	245,819
243	Millwork and related products	268	162	27,058	153,528	24,412	48,900	133,129	273,608	17,734	22,109	192,768
244	Wooden containers.....	21	6	432	1,631	402	773	1,437	2,289	(Z)	1,043	6,054
249	Miscellaneous wood products..	97	30	2,053	10,693	1,692	3,207	8,084	23,093	3,125	1,110	9,189
25	Furniture and fixtures.....	102	21	2,441	12,796	2,118	4,172	10,166	21,869	566	1,943	13,168
251	Household furniture.....	64	18	2,177	11,229	1,904	3,745	8,950	19,325	(Z)	1,602	10,470
26	Paper and allied products.....	57	32	6,781	44,789	5,611	11,466	34,947	116,901	18,902	7,017	103,555
265	Paperboard containers and boxes.....	13	6	705	4,294	557	1,113	3,348	6,932	(Z)	849	9,785
27	Printing and publishing.....	356	53	5,314	29,358	3,053	5,748	16,362	55,794	2,858	5,303	45,119
271	Newspapers.....	112	28	3,283	17,313	1,567	2,957	8,148	32,083	1,247	3,325	27,264
275	Commercial printing.....	178	13	1,206	7,258	929	1,796	5,249	12,112	877	1,407	11,070
28	Chemicals and allied products..	90	24	1,544	10,094	926	1,861	5,347	32,512	4,676	1,322	19,726
285	Paints and allied products...	23	9	349	2,156	168	300	945	4,561	(Z)	264	2,415
29	Petroleum and coal products....	17	7	358	2,241	274	560	1,591	7,984	(Z)	279	4,489
32	Stone, clay and glass products.	213	29	3,093	18,847	2,452	4,923	14,272	40,057	6,416	2,701	26,331
327	Concrete and plaster products	152	20	1,952	11,814	1,465	2,938	8,430	26,349	5,641	1,696	17,336
33	Primary metal industries.....	52	24	4,509	30,364	3,610	7,217	23,026	66,262	3,037	4,214	65,784
332	Iron and steel foundries.....	18	11	1,635	10,196	1,376	2,715	8,462	16,286	(Z)	1,496	13,582
34	Fabricated metal products.....	244	63	4,955	30,799	3,762	7,229	21,144	60,691	2,864	5,002	46,659
342	Outlery, hand tools, hardware	25	8	528	2,728	378	736	1,885	5,200	(Z)	368	3,682
344	Structural metal products.....	111	30	2,844	18,807	2,177	4,183	12,709	34,126	1,182	3,006	27,358
349	Fabricated metal products, n.e.c.....	24	8	554	3,074	377	753	2,110	7,307	(Z)	298	3,468
35	Machinery, except electrical...	307	58	5,570	36,586	3,976	7,859	23,322	64,981	2,138	4,062	38,390
353	Construction and like equipment.....	36	14	1,850	12,499	1,165	2,296	6,737	16,785	626	1,243	9,391
355	Special industry machinery...	52	16	1,603	10,941	1,141	2,264	6,565	24,912	588	1,180	13,159
356	General industrial machinery.	29	5	253	1,713	200	422	1,291	2,861	(Z)	260	2,529
359	Miscellaneous machinery.....	129	11	1,176	7,248	934	1,798	5,668	13,529	706	886	8,321
36	Electrical machinery.....	69	23	6,084	34,914	3,908	6,983	18,699	57,159	3,210	2,467	28,960
369	Electrical products, n.e.c.....	15	6	431	2,489	301	566	1,488	5,030	(Z)	132	1,314
37	Transportation equipment.....	96	25	4,972	29,584	4,004	7,515	22,411	49,676	3,255	3,849	33,851
371	Motor vehicles and equipment.	36	12	1,383	8,587	1,061	1,942	6,206	17,251	1,395	777	8,032
38	Instruments and related products.....	28	5	918	4,964	684	1,305	3,073	10,942	(Z)	570	4,901
39	Miscellaneous manufacturing including ordnance ³	129	22	1,513	7,008	1,191	2,145	4,729	11,677	660	995	7,531
394	Toys and sporting goods.....	32	7	560	1,958	488	840	1,540	3,318	(Z)	299	1,834
399	} Miscellaneous manufactures ³ ..	73	12	729	3,847	534	971	2,387	6,276	(Z)	557	4,500
190												
--	Administrative and auxiliary ⁴ ..	-	-	1,795	14,861	-	-	-	-	-	1,404	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employ-ees, number	Value added by manufac-ture (\$1,000)
		Total	Withn 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PORTLAND SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	1,832	503	66,002	393,660	43,300	93,590	260,612	772,286	49,092	58,334	597,572
20	Food and kindred products.....	198	90	9,096	53,476	5,861	11,254	31,076	133,220	7,517	9,216	110,009
201	Meat products.....	29	13	1,346	8,703	934	1,920	5,946	9,169	723	1,420	11,734
202	Dairies.....	22	10	1,162	7,582	373	779	2,316	16,082	2,758	1,333	17,542
203	Canned and frozen foods.....	39	19	1,623	7,660	1,413	2,563	6,027	19,886	639	1,906	16,452
204	Grain mill products.....	23	9	615	3,788	436	983	2,702	13,199	1,042	767	10,046
205	Bakery products.....	33	18	2,596	15,524	1,597	3,168	8,929	39,624	968	2,354	33,524
208	Beverages.....	20	10	852	5,925	437	810	2,846	19,460	934	757	12,414
22	Textile mill products.....	19	11	2,359	10,818	1,736	3,579	6,566	19,945	(2)	2,344	9,070
23	Apparel and related products....	63	24	3,075	11,831	2,538	4,903	8,387	25,346	(2)	2,860	15,589
233	Women's and misses' outerwear..	17	8	1,223	4,937	932	1,773	3,043	9,574	(2)	1,072	4,972
239	Fabricated textiles, n.e.c.....	34	11	1,009	3,903	820	1,601	2,706	8,005	(2)	933	4,700
24	Lumber and wood products.....	354	74	7,674	42,127	6,728	12,991	35,569	68,825	5,304	7,090	61,704
241	Logging camps and contractors...	141	11	922	4,692	794	1,558	4,078	7,169	1,654	956	6,343
242	Sawmills and planing mills....	109	30	2,522	12,425	2,219	4,220	10,681	21,787	1,760	2,144	14,985
243	Millwork and related products..	68	24	3,423	20,774	3,023	5,898	17,612	31,987	1,579	3,198	34,865
25	Furniture and fixtures.....	76	16	2,037	11,158	1,786	3,554	8,870	19,506	(2)	1,833	12,715
251	Household furniture.....	47	13	1,786	9,641	1,584	3,152	7,702	16,953	(2)	1,506	10,094
26	Paper and allied products.....	43	24	7,099	46,930	5,888	11,834	36,668	108,436	10,232	7,080	97,361
264	Paper and paperboard products..	23	12	2,251	13,565	1,882	3,769	10,401	19,688	1,575	1,936	12,428
27	Printing and publishing.....	203	32	3,344	19,274	1,947	3,755	10,592	35,641	1,331	3,503	30,381
271	Newspapers.....	27	9	1,713	9,237	774	1,516	3,879	19,053	(2)	1,901	17,113
275	Commercial printing.....	118	13	995	6,089	760	1,438	4,332	10,211	740	1,192	9,531
28	Chemicals and allied products...	79	21	1,458	9,616	892	1,814	5,141	33,500	4,187	1,291	22,711
281	Basic chemicals.....	13	5	493	3,512	313	679	2,026	15,879	(D)	447	11,828
29	Petroleum and coal products.....	14	6	329	2,076	249	512	1,481	7,744	(2)	275	4,330
32	Stone, clay and glass products..	83	16	1,865	12,214	1,492	3,000	9,225	26,673	5,284	1,623	17,529
327	Concrete and plaster products..	50	10	1,026	6,874	767	1,524	4,769	13,930	4,625	878	9,891
33	Primary metal industries.....	41	23	4,124	28,469	3,358	6,568	22,069	59,048	2,865	4,331	60,568
332	Iron and steel foundries.....	13	12	1,635	10,270	1,376	2,716	8,531	16,374	1,497	1,437	13,563
34	Fabricated metal products.....	179	54	4,335	27,491	3,333	6,385	19,029	53,655	2,601	4,537	42,467
344	Structural metal products.....	75	25	2,555	17,370	1,947	3,742	11,610	31,973	1,088	2,758	25,330
349	Fabricated metal products, n.e.c.....	17	6	349	2,180	260	526	1,589	5,111	(2)	223	3,039
35	Machinery, except electrical....	190	37	4,470	30,082	3,063	6,126	18,440	54,330	1,382	3,211	31,291
353	Construction and like equipment.....	25	10	1,445	10,149	837	1,665	4,911	12,625	(2)	993	7,067
355	Special industry machinery.....	35	10	1,469	9,936	1,015	2,060	5,931	24,027	(2)	1,048	13,201
359	Miscellaneous machinery.....	68	6	916	5,767	705	1,369	4,449	10,507	(2)	597	5,208
36	Electrical machinery.....	57	20	5,829	33,241	3,741	6,674	17,791	53,842	3,092	2,479	28,914
37	Transportation equipment.....	72	19	4,593	27,731	3,667	6,851	20,942	46,531	3,061	3,476	31,475
39	Miscellaneous manufacturing, including ordnance ³	85	21	1,175	5,680	899	1,608	3,662	9,117	(2)	853	6,593
394	Toys and sporting goods.....	21	6	363	1,344	307	513	994	2,105	(2)	204	1,194
399	Miscellaneous manufactures ³ ...	48	12	612	3,213	439	799	1,902	5,108	(2)	513	4,232
190	Administrative and auxiliary ⁴ ...	-	-	1,672	13,448	-	-	-	-	-	1,297	-

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified. (2) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MCC63(P)-S39

preliminary report

Area series

PENNSYLVANIA

Value added by manufacturing in 1963 in the State of Pennsylvania amounted to \$13,969 million, an increase of 6 percent from 1962 and 22 percent from 1958. Of this total, \$2,658 million was contributed by the primary metal industries and \$1,321 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	19,089	7,761	1,395,473	8,010,193	1,029,595	2,005,419	5,112,855	13,968,675	793,752	100	122
1962 ³	(NA)	(NA)	1,409,650	7,739,690	1,041,380	2,021,434	4,961,118	13,129,753	766,627	101	115
1961 ³	(NA)	(NA)	1,385,272	7,328,429	1,019,700	1,951,218	4,660,352	12,379,910	742,494	99	108
1960 ³	(NA)	(NA)	1,452,852	7,471,397	1,076,106	2,061,273	4,824,762	12,924,980	842,307	104	113
1959 ³	(NA)	(NA)	1,421,158	7,206,888	1,059,845	2,051,135	4,684,467	12,643,651	684,523	101	111
1958.....	19,037	7,735	1,401,984	6,776,135	1,034,187	1,960,616	4,353,713	11,422,611	816,320	100	100

(NA) Not available. ¹Revised.
¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
²Includes expenditures for plants under construction but not in operation.
³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

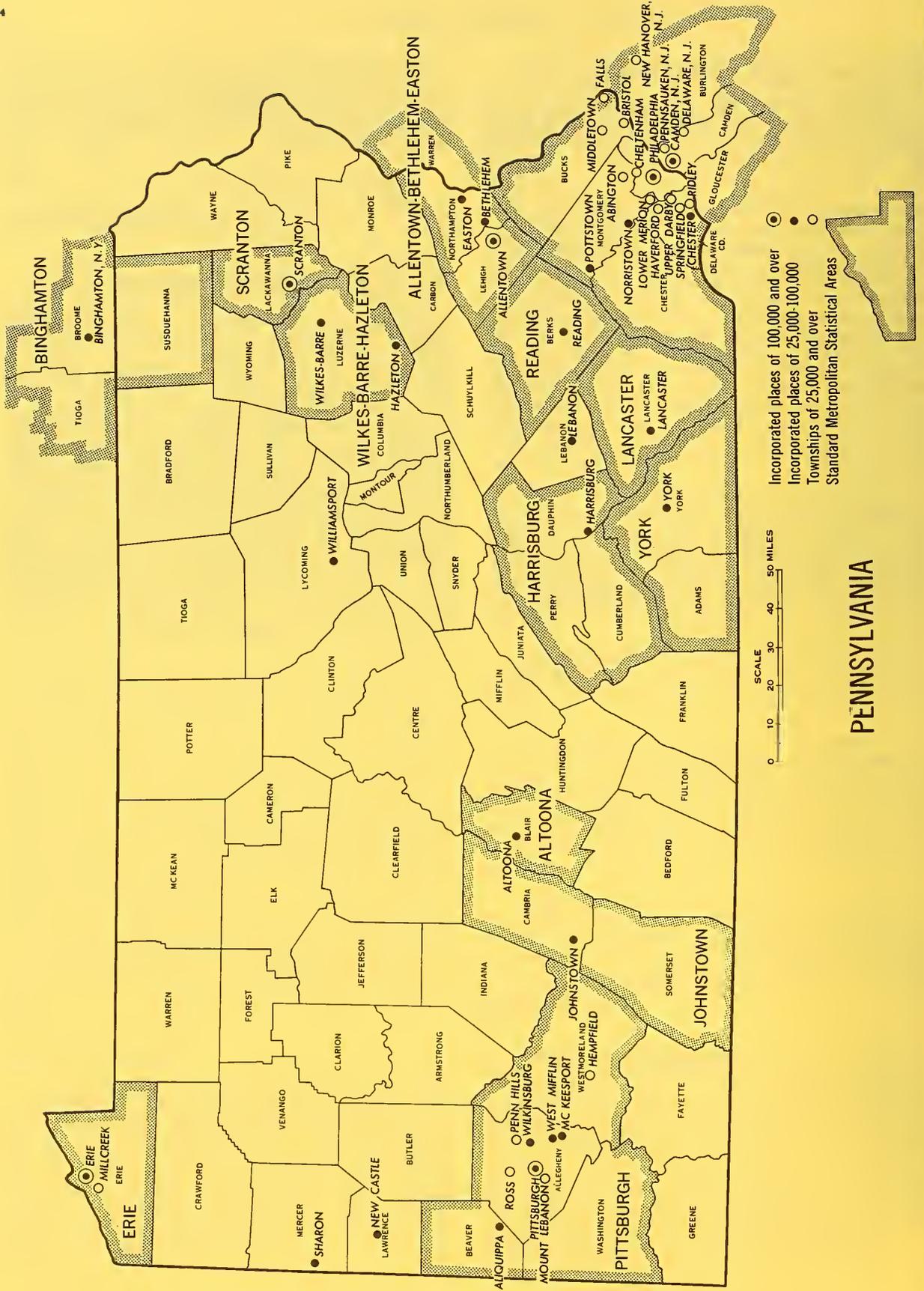
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



PENNSYLVANIA

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PENNSYLVANIA, TOTAL.....	19,089	7,761	1,395,473	8,010,193	1,029,595	2,005,419	5,112,855	13,968,675	793,752	1,401,984	11,422,611
STANDARD METROPOLITAN STATISTICAL AREAS											
Allentown-Bethlehem-Easton ⁴	1,017	543	94,114	521,288	70,171	132,081	325,375	817,257	55,182	93,923	683,803
Portion in New Jersey.....	129	67	11,065	62,954	7,994	16,079	40,217	106,443	7,826	10,417	85,656
Portion in Pennsylvania.....	888	476	83,049	458,334	62,177	116,002	285,158	710,814	47,356	83,506	598,147
Altoona ⁵	148	61	11,747	54,103	9,626	18,586	40,380	114,060	7,650	10,400	83,773
Binghamton ⁶	388	153	41,697	258,701	26,099	50,676	125,140	339,667	19,821	46,068	310,640
Portion in New York.....	332	134	39,296	248,260	24,110	46,802	117,629	324,535	19,287	43,778	299,777
Portion in Pennsylvania.....	56	19	2,401	10,441	1,989	3,874	7,511	15,132	534	2,290	10,863
Erie ⁷	463	179	36,415	219,881	26,252	52,316	141,852	410,065	18,202	34,858	308,019
Harrisburg ⁸	453	190	33,503	152,505	25,550	49,076	109,337	353,311	13,108	33,543	262,480
Johnstown ⁹	318	91	23,132	127,966	18,459	49,076	94,180	204,435	19,646	23,648	167,178
Lancaster ¹⁰	662	287	47,893	256,847	35,751	71,595	159,701	525,581	28,779	44,030	367,964
Philadelphia ¹¹	8,125	3,115	537,439	3,320,978	374,723	745,962	1,994,730	5,987,310	297,576	1,464,452	4,130,104
Portion in New Jersey.....	1,115	391	75,322	500,438	54,549	109,977	311,409	884,703	50,533	72,460	696,157
Portion in Pennsylvania.....	7,010	2,725	462,117	2,820,540	320,174	635,985	1,683,321	5,102,607	247,043	1,387,692	3,433,947
Pittsburgh ¹²	2,471	877	274,083	1,936,555	183,454	356,663	1,133,230	2,890,300	201,557	230,752	2,622,340
Reading ¹³	669	303	49,965	252,185	39,110	76,271	171,753	420,369	23,391	28,429	341,515
Scranton ¹⁴	487	262	29,137	116,576	24,436	44,444	88,715	186,579	9,990	15,779	159,799
Wilkes-Barre-Hazleton ¹⁵	762	397	43,829	165,014	37,670	69,286	126,868	312,116	13,366	38,675	207,590
York ¹⁶	717	357	48,252	221,976	39,532	79,923	162,414	441,124	19,433	28,053	363,397
COUNTIES ¹											
Adams.....	113	54	7,114	26,077	6,293	12,707	20,750	48,716	2,282	6,792	39,969
Allentown.....	1,676	577	175,437	1,296,084	106,630	207,376	666,084	1,740,602	118,687	203,935	1,677,268
Armstrong.....	77	26	5,506	33,444	4,430	8,753	26,283	57,784	3,109	5,799	66,446
Beaver.....	183	78	42,931	287,215	34,141	65,316	216,021	523,163	30,177	44,621	435,820
Berks.....	669	303	49,965	252,185	39,110	76,271	171,753	420,369	23,391	28,429	341,515
Blair.....	148	61	11,747	54,103	9,626	18,586	40,380	114,060	7,650	10,400	83,773
Bradford.....	82	32	4,848	24,625	3,595	7,049	16,236	51,074	2,145	5,140	39,546
Bucks.....	577	204	34,811	216,273	26,024	51,517	144,818	515,081	19,356	27,691	346,105
Butler.....	157	55	11,478	74,929	9,397	18,688	57,194	176,129	9,039	9,569	91,836
Cambria.....	190	54	19,269	116,538	14,974	27,039	84,896	187,120	18,552	20,630	153,372
Carbon.....	110	4	8,483	30,006	7,335	12,973	23,281	52,802	5,273	7,500	39,906
Centre.....	92	30	4,237	21,013	3,432	7,214	15,506	40,663	2,205	3,597	31,465
Chester.....	343	148	25,557	155,078	18,884	37,331	103,302	330,466	14,144	24,101	207,465
Clarion.....	65	17	2,913	15,109	2,412	4,782	11,388	29,368	1,023	2,188	22,272
Clearfield.....	138	39	4,771	20,494	3,939	7,350	15,898	40,152	1,805	5,687	40,144
Clinton.....	52	24	6,534	33,018	5,517	11,741	26,011	56,443	2,685	5,705	47,278
Columbia.....	124	58	8,287	32,928	7,196	14,519	25,300	60,810	4,200	8,805	55,154
Crawford.....	158	50	8,201	42,603	6,126	11,850	29,499	67,009	3,914	8,483	71,385
Cumberland.....	153	67	10,501	48,607	8,223	16,604	32,942	110,333	4,955	8,429	71,707
Dauphin.....	250	111	22,023	101,888	16,467	30,997	74,137	238,066	7,791	24,293	187,088
Delaware.....	468	155	53,573	368,182	35,182	70,684	215,019	534,345	34,405	47,584	445,198
Elk.....	77	22	6,949	37,944	5,494	11,326	26,565	66,059	5,406	6,959	58,174
Erie.....	463	179	36,415	219,881	26,252	52,316	141,852	410,065	18,202	34,858	308,019
Fayette.....	177	58	7,514	34,096	6,123	11,315	25,263	67,410	4,151	7,015	52,829
Forrest.....	11	4	507	2,329	444	964	1,934	4,922	(Z)	682	4,892
Franklin.....	132	53	10,698	47,665	8,867	17,413	34,869	92,025	4,986	8,749	47,391
Fulton.....	22	2	464	1,261	429	806	1,217	2,029	(Z)	345	916
Greene.....	30	9	665	2,049	560	1,016	1,638	3,734	(Z)	580	2,677
Huntingdon.....	66	17	3,052	12,419	2,669	5,118	10,241	19,990	1,200	2,910	18,837
Indiana.....	82	23	4,123	19,001	3,211	6,248	12,496	44,643	1,221	3,135	24,026
Jefferson.....	93	32	5,410	22,634	4,638	8,744	17,741	42,907	1,373	4,149	35,984
Juniata.....	47	7	1,010	2,864	937	1,686	2,561	4,371	(Z)	760	2,925
Lackawanna.....	487	262	29,137	116,576	24,436	44,444	88,715	186,579	9,990	27,365	159,779
Lancaster.....	662	287	47,893	256,847	35,751	71,595	159,701	525,581	28,779	44,030	367,964
Lawrence.....	138	56	11,341	70,249	9,169	17,704	52,237	128,263	7,803	11,513	108,796
Lebanon.....	202	99	13,227	59,715	11,221	21,536	45,169	107,242	11,753	12,417	87,591
Lehigh.....	471	233	40,286	229,461	27,791	52,746	122,605	303,720	16,000	34,193	243,708
Luzerne.....	762	397	43,829	165,014	37,670	69,286	126,868	312,116	13,366	38,675	207,590
Lycoming.....	208	100	17,977	84,469	14,332	28,745	60,178	178,610	8,482	16,508	109,238
McKean.....	136	38	7,246	36,925	5,550	10,874	25,243	84,113	4,391	7,425	61,138
Mercer.....	160	51	19,191	130,703	15,149	30,252	98,401	199,388	20,498	18,966	220,978
Mifflin.....	60	24	6,135	31,385	5,097	10,126	24,948	53,123	2,810	5,863	58,618
Monroe.....	92	46	4,653	20,030	3,825	7,019	14,963	33,371	1,844	3,864	25,647
Montgomery.....	1,085	452	81,262	513,346	54,275	109,392	294,481	970,757	57,083	64,322	575,828
Montour.....	22	7	2,351	10,917	2,055	4,157	8,688	19,987	(Z)	2,146	17,072
Northampton.....	417	243	42,763	228,873	34,386	63,256	162,553	407,094	31,356	49,313	354,439
Northumberland.....	190	97	14,742	60,947	12,599	23,801	46,101	133,970	4,972	13,523	107,933
Perry.....	50	12	979	2,808	860	1,475	2,258	4,912	(Z)	821	3,685
Philadelphia.....	4,537	1,766	266,914	1,567,661	185,809	366,851	925,701	2,752,378	122,055	300,739	2,555,508
Potter.....	58	9	1,005	3,483	901	1,761	2,767	5,654	(Z)	894	3,316

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958--Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ --Continued											
Schuylkill.....	340	192	21,461	76,675	18,585	33,487	59,301	133,308	14,030	19,030	93,268
Snyder.....	67	32	2,295	7,747	2,017	3,787	6,431	12,788	653	1,955	7,192
Somerset.....	128	37	3,863	11,428	3,485	5,869	9,284	17,315	1,094	3,018	13,806
Sullivan.....	33	8	606	1,781	553	1,061	1,525	2,592	(Z)	518	1,953
Susquehanna.....	56	19	2,401	10,441	1,989	3,874	7,511	15,132	534	2,290	10,863
Tioga.....	46	16	2,553	12,804	2,224	4,318	10,484	30,047	1,236	2,978	22,935
Union.....	32	12	1,579	6,115	1,338	2,599	4,639	12,525	517	1,470	7,804
Venango.....	105	32	6,132	36,209	4,720	9,766	26,540	65,408	4,083	6,975	58,891
Warren.....	99	41	4,989	29,171	3,753	7,744	20,878	44,927	3,421	4,722	37,033
Washington.....	208	77	16,830	101,180	13,524	26,021	75,784	180,568	12,394	17,349	159,336
Wayne.....	82	19	2,325	8,073	2,074	3,713	5,905	13,177	612	2,314	11,417
Westmoreland.....	404	145	38,885	252,076	29,159	57,950	175,341	445,967	40,299	39,847	349,916
Wyoming.....	43	15	1,052	3,273	887	1,568	2,569	4,621	(Z)	925	3,661
York.....	604	303	41,138	195,899	33,241	67,220	141,678	392,461	17,153	41,261	323,428

(Z) Less than \$500 thousand. [†]Revised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Allentown-Bethlehem-Easton Standard Metropolitan Statistical Area consists of Lehigh and Northampton Counties, Pa., and Warren County, N.J.⁵The Altoona Standard Metropolitan Statistical Area is coextensive with Blair County, Pa.⁶The Binghamton Standard Metropolitan Statistical Area consists of Broome and Tioga Counties, N.Y. and Susquehanna County, Pa.⁷The Erie Standard Metropolitan Statistical Area is coextensive with Erie County, Pa.⁸The Harrisburg Standard Metropolitan Statistical Area consists of Cumberland, Dauphin and Perry Counties, Pa.⁹The Johnstown Standard Metropolitan Statistical Area consists of Cambria and Somerset Counties, Pa.¹⁰The Lancaster Standard Metropolitan Statistical Area is coextensive with Lancaster County, Pa.¹¹The Philadelphia Standard Metropolitan Statistical Area consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N.J.¹²The Pittsburgh Standard Metropolitan Statistical Area consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.¹³The Reading Standard Metropolitan Statistical Area is coextensive with Berks County, Pa.¹⁴The Scranton Standard Metropolitan Statistical Area is coextensive with Lackawanna County, Pa.¹⁵The Wilkes-Barre-Hazleton Standard Metropolitan Statistical Area is coextensive with Luzerne County, Pa.¹⁶The York Standard Metropolitan Statistical Area consists of Adams and York Counties, Pa.

Table 3.--GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	19,089	7,761	1,395,473	8,010,193	1,029,595	2,005,419	5,112,855	13,968,675	793,752	1,401,984	11,422,611
20	Food and kindred products.....	2,634	923	106,029	550,399	68,313	140,404	318,533	1,321,387	67,533	114,738	1,085,191
201	Meat products.....	357	131	13,158	70,437	9,927	20,899	49,014	119,951	5,445	14,082	111,670
202	Dairies.....	610	246	21,143	116,171	8,739	18,046	42,260	253,639	13,951	24,515	223,865
203	Canned and frozen foods.....	144	68	9,910	40,118	8,502	16,802	30,648	156,794	6,801	10,382	99,279
204	Crain mill products.....	194	40	3,430	17,865	2,249	5,184	11,168	64,126	4,281	3,014	45,095
207	Candy and related products....	172	58	11,354	49,588	9,571	18,825	38,153	148,282	5,532	12,888	125,553
208	Beverages.....	330	110	12,472	74,028	6,958	13,824	38,327	179,357	11,995	13,673	156,365
209	Miscellaneous Foods and kindred products.....	267	65	6,237	30,185	4,300	8,813	17,599	75,840	4,975	5,662	55,648
21	Tobacco manufactures.....	82	45	9,550	32,174	8,728	16,574	27,116	100,975	1,366	13,079	89,909
212	Cigars.....	58	32	8,712	28,674	7,990	15,109	24,757	93,063	1,112	12,165	81,282
214	Tobacco stemming and redrying.	14	11	682	2,485	622	1,241	1,949	4,516	(Z)	657	5,878
22	Textile mill products.....	836	548	66,999	269,710	59,463	115,256	211,848	477,368	26,402	76,361	425,505
221	Weaving mills, cotton.....	18	12	1,062	4,860	981	2,046	4,061	9,732	(Z)	1,640	7,115
222	Weaving mills, synthetics....	69	59	8,312	34,546	7,723	16,043	29,595	56,827	1,745	9,507	52,897
223	Weaving, finishing mills, wool	45	26	2,790	12,990	2,430	4,783	10,151	20,216	(D)	3,836	22,718
224	Narrow fabric mills.....	66	40	4,448	16,180	4,007	7,744	12,858	26,053	1,050	4,606	24,171
225	Knitting mills.....	387	256	31,081	116,341	27,488	51,469	90,252	196,572	15,217	34,303	172,120
226	Textile finishing, except wool	56	32	2,790	13,417	2,378	5,145	10,358	31,664	921	3,188	20,993
227	Floor covering mills.....	36	18	4,873	23,783	4,219	8,522	18,152	54,720	2,211	5,945	47,998
228	Yarn and thread mills.....	86	68	7,373	27,182	6,817	12,707	22,583	44,677	3,143	8,331	45,445
229	Miscellaneous textile goods...	73	37	4,270	20,411	3,420	6,797	13,838	36,907	1,135	5,005	32,048

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
23	Apparel and related products...	2,298	1,607	173,128	553,511	158,961	278,314	467,058	863,365	16,848	158,544	652,182
231	Men's and boys' suits and coats.....	171	121	27,906	113,817	25,459	46,913	95,936	167,911	1,566	25,792	134,793
232	Men's and boys' furnishings..	312	237	34,662	107,606	32,384	57,288	93,778	169,758	2,735	34,673	137,305
233	Women's and misses' outerwear	987	807	63,412	181,558	58,645	98,621	155,299	279,119	8,078	47,956	170,656
234	Women's and children's underwear.....	132	112	15,119	45,559	13,998	24,305	38,207	71,625	1,302	17,044	63,433
236	Children's outerwear.....	193	154	15,468	48,012	14,018	24,599	40,216	80,118	1,002	16,802	64,520
238	Miscellaneous apparel.....	95	51	4,699	14,289	4,310	7,488	11,763	(Z)	(Z)	4,543	19,416
239	Fabricated textiles, n.e.c....	338	102	8,678	28,956	7,458	14,154	21,786	52,987	1,381	7,709	40,605
24	Lumber and wood products.....	1,450	166	13,184	48,758	10,947	21,303	36,994	89,260	7,910	12,251	65,706
241	Logging camps and contractors.....	265	4	904	2,033	806	1,530	1,835	3,868	900	710	3,117
242	Sawmills and planing mills...	790	56	5,634	16,800	4,808	9,159	14,050	29,492	3,830	5,089	20,551
243	Millwork and related products.....	188	59	3,689	18,865	2,784	5,601	12,360	38,638	2,415	3,358	26,085
244	Wooden containers.....	42	13	726	2,934	620	1,210	2,213	4,363	(Z)	868	4,233
249	Miscellaneous wood products..	165	34	2,231	8,126	1,929	3,803	6,536	12,899	(Z)	2,226	11,720
25	Furniture and fixtures.....	600	215	23,422	109,469	19,629	40,072	83,931	184,143	5,560	22,902	154,442
251	Household furniture.....	367	144	14,013	59,939	11,916	24,169	46,259	99,965	3,563	15,408	96,862
254	Partitions and fixtures.....	119	34	3,486	21,699	2,832	6,225	16,635	37,821	918	2,998	21,646
259	Furniture and fixtures, n.e.c.....	54	11	1,621	6,406	1,309	2,472	4,776	10,726	(Z)	1,326	10,284
26	Paper and allied products.....	425	289	40,463	237,307	32,277	68,249	171,304	481,712	34,283	38,223	380,332
262	Paper mills, except building.	26	25	8,977	63,677	7,187	16,516	48,627	115,696	11,685	9,434	100,367
263	Paperboard mills.....	18	17	2,507	18,172	2,011	4,792	13,606	34,173	3,219	2,594	33,349
264	Paper and paperboard products.....	151	85	10,689	59,542	8,573	17,202	42,677	164,233	6,816	9,076	114,175
265	Paperboard containers and boxes.....	221	154	17,124	89,540	13,462	27,700	61,038	154,983	12,018	15,866	122,365
27	Printing and publishing.....	2,054	468	63,216	373,774	41,355	80,322	237,846	672,583	25,918	64,279	548,607
271	Newspapers.....	363	127	20,344	121,955	10,748	20,284	65,994	198,869	8,590	20,696	163,598
272	Periodicals.....	113	20	6,742	38,673	2,030	3,880	12,696	133,028	931	20,696	106,695
273	Books.....	81	27	3,836	21,908	2,671	5,604	14,121	46,382	1,254	4,047	36,620
274	Miscellaneous publishing....	52	8	490	2,012	217	404	829	3,439	(Z)	639	5,150
275	Commercial printing.....	1,157	185	23,407	140,414	18,797	36,540	106,953	214,873	11,992	24,645	180,841
276	Manifold business forms.....	30	17	1,459	8,571	1,173	2,448	6,143	20,358	1,059	1,193	11,715
277	Greeting card manufacturing..	12	7	441	1,664	378	771	1,246	2,408	(Z)	404	2,243
278	Bookbinding and related work.	85	32	2,440	11,704	2,122	4,056	8,828	17,552	1,009	1,911	10,983
279	Printing trades services.....	161	45	4,057	26,873	3,219	6,335	21,036	35,674	977	3,646	30,762
28	Chemicals and allied products..	696	251	46,598	304,042	28,948	57,490	159,260	963,395	62,749	43,923	723,875
281	Basic chemicals.....	121	58	8,461	54,680	5,873	12,064	35,765	164,841	20,899	9,153	120,607
283	Drugs.....	89	34	10,902	79,813	5,756	11,058	31,822	423,537	20,347	9,152	302,777
284	Cleaning and toilet goods....	142	32	2,978	16,337	1,825	3,605	7,862	43,738	1,597	3,273	56,439
285	Paints and allied products...	91	43	4,649	30,654	2,403	4,898	13,482	68,276	4,373	5,108	55,601
289	Miscellaneous chemical products.....	156	46	5,306	30,951	3,549	6,917	16,557	62,980	3,171	4,727	46,709
29	Petroleum and coal products...	146	48	14,082	102,854	10,538	21,652	71,289	203,690	25,821	16,741	162,352
291	Petroleum refining.....	23	16	11,393	84,995	8,862	17,970	61,935	164,686	24,370	14,112	128,768
295	Paving and roofing materials.	80	14	1,334	7,362	952	2,130	5,031	18,071	949	1,372	16,067
299	Petroleum and coal products, n.e.c.....	43	18	1,355	10,497	724	1,552	4,293	20,933	502	1,257	17,517
30	Rubber and plastics products, n.e.c.....	294	135	22,659	128,412	18,352	36,515	94,660	261,603	15,102	20,068	203,820
301	Tires and inner tubes.....	12	8	5,543	40,934	4,525	9,264	32,014	101,358	4,376	5,352	91,995
306	Rubber products, n.e.c.....	63	35	7,133	40,781	5,482	10,933	28,280	80,633	2,801	5,594	44,772
307	Plastic products, n.e.c.....	214	87	8,540	42,028	6,980	13,767	30,175	71,888	7,714	8,320	63,729
31	Leather and leather products...	264	186	32,085	111,429	29,501	55,414	93,721	172,197	2,971	32,315	152,615
311	Leather tanning and finishing.....	25	20	2,726	13,408	2,333	4,519	10,744	19,762	(Z)	4,330	27,102
314	Footwear, except rubber.....	141	121	25,336	84,359	23,640	44,265	72,260	129,915	2,344	23,639	103,282
316	Luggage.....	21	11	861	2,760	737	1,248	2,286	5,321	(Z)	766	3,985
317	Purses and small leather goods.....	25	18	1,801	5,680	1,631	3,083	4,478	8,833	(Z)	1,923	8,692
319	Leather goods, n.e.c.....	19	3	335	1,443	263	581	953	2,355	(Z)	299	1,760
32	Stone, clay and glass products.	1,114	398	58,207	327,389	48,266	95,264	252,905	638,549	45,937	62,727	593,401
322	Pressed and blown glassware..	37	30	13,776	70,909	12,269	23,473	59,833	133,840	7,390	14,698	119,586
323	Products of purchased glass..	88	21	2,849	15,649	2,360	4,608	12,080	33,931	1,327	3,291	29,196
324	Cement, hydraulic.....	27	24	4,867	31,907	4,101	7,922	24,619	85,456	9,041	6,455	101,644
325	Structural clay products.....	101	85	7,706	41,945	6,548	12,722	32,880	76,668	4,175	8,521	65,997
326	Pottery and related products.	36	21	5,060	26,300	4,242	8,399	20,476	42,992	1,120	4,810	31,344
327	Concrete and plaster products.....	564	120	9,026	46,912	6,786	14,218	32,722	101,469	12,405	8,810	85,136
329	Nonmetallic mineral products.	186	79	9,400	56,397	7,267	14,638	39,767	108,909	6,346	10,602	103,768
33	Primary metal industries.....	615	375	209,343	1,457,543	169,560	328,086	1,106,766	2,657,808	231,394	226,865	2,237,754
331	Steel rolling and finishing...	142	121	161,482	1,157,704	131,008	249,978	885,946	2,153,551	199,961	176,550	1,840,397
332	Iron and steel foundries.....	166	124	22,148	135,770	18,912	36,677	107,953	202,758	7,809	21,750	149,371
334	Secondary nonferrous metals..	40	15	1,662	9,851	1,203	2,472	6,195	21,446	724	1,519	21,458
335	Nonferrous rolling and drawing.....	43	33	10,836	72,597	8,054	17,479	48,750	136,720	18,335	13,863	120,038
339	Primary metal industries, n.e.c.....	77	33	4,079	25,814	3,265	6,594	18,820	44,293	1,590	5,191	41,953

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products.....	1,763	725	105,762	632,730	81,881	163,403	448,061	1,095,254	45,614	115,169	1,012,224
341	Metal cans.....	15	15	4,395	29,268	3,928	8,592	25,303	55,451	6,196	4,368	41,692
342	Cutlery, hand tools, hardware.....	125	69	6,402	32,674	5,269	10,368	24,064	59,147	2,051	7,691	55,691
343	Plumbing and heating, except electric.....	101	49	7,248	43,822	5,491	10,646	29,343	93,120	2,897	7,656	78,686
344	Structural metal products...	744	276	38,538	232,462	28,797	56,024	157,044	353,851	14,173	46,680	403,579
345	Screw machine products.....	132	43	7,288	44,780	5,684	12,181	32,988	75,611	2,099	7,660	67,566
346	Metal stampings.....	132	65	14,599	93,373	12,005	24,168	72,273	164,544	7,263	15,142	125,112
347	Metal services, n.e.c.....	180	38	3,288	16,489	2,653	5,361	12,028	28,450	1,445	2,501	18,254
348	Fabricated wire products, n.e.c.....	105	45	5,962	32,237	4,791	9,819	23,875	60,990	2,685	6,666	56,830
349	Fabricated metal products, n.e.c.....	229	125	18,042	107,626	13,263	26,244	71,143	204,090	6,805	16,805	164,814
35	Machinery, except electrical..	1,938	566	111,726	726,770	77,759	158,056	454,317	1,240,858	66,834	112,147	1,019,519
353	Construction and like equipment.....	141	74	14,128	91,873	8,811	18,009	52,537	174,191	5,581	15,374	162,225
354	Metalworking machinery.....	453	119	18,570	120,440	14,463	29,357	86,739	199,151	11,269	17,874	152,088
355	Special industry machinery..	225	92	15,461	98,047	11,018	22,749	61,860	147,149	6,837	16,076	109,184
356	General industrial machinery	297	103	21,104	138,304	14,128	28,465	82,366	248,616	9,534	20,727	180,023
357	Office machines, n.e.c.....	33	12	4,713	30,485	3,108	6,381	16,614	59,060	944	3,311	21,330
358	Service industry machines...	123	44	10,724	63,204	7,041	13,891	36,081	127,765	7,084	7,427	55,534
359	Miscellaneous machinery.....	622	99	8,019	44,597	6,534	13,347	33,813	72,391	3,692	6,980	53,302
36	Electrical machinery.....	623	343	109,307	657,520	78,373	155,613	404,180	1,207,524	59,575	96,240	927,521
361	Electric distribution products.....	74	37	25,048	178,206	16,621	33,510	105,376	271,659	8,230	25,951	310,045
362	Electric industrial apparatus.....	83	47	13,083	81,523	9,028	18,641	49,191	175,472	7,537	11,148	110,304
363	Household appliances.....	27	14	4,431	24,372	3,467	6,657	15,284	55,955	1,793	5,196	49,320
364	Lighting and wiring devices.	155	95	13,338	64,275	10,919	21,987	46,243	165,770	5,414	12,396	130,647
365	Radio and TV receiving equipment.....	22	10	4,000	19,893	3,426	6,583	15,700	38,108	1,026	5,397	39,407
366	Communication equipment.....	65	38	12,444	84,998	7,467	15,353	45,431	118,431	6,197	4,681	36,068
367	Electronic components.....	138	76	31,497	173,019	22,983	44,788	106,215	317,737	27,327	27,081	210,153
369	Electrical products, n.e.c..	59	26	5,466	31,234	4,112	8,094	20,740	64,392	2,051	4,390	41,577
37	Transportation equipment.....	281	145	65,436	460,629	44,149	89,268	271,484	727,471	30,313	54,626	515,312
371	Motor vehicles and equipment.....	139	69	18,567	127,192	14,795	30,401	94,634	230,317	10,459	19,001	190,425
372	Aircraft and parts.....	44	29	26,130	200,253	13,030	27,605	80,703	280,688	12,639	16,572	178,505
373	Ship and boat building.....	29	12	5,660	36,223	4,693	9,463	27,748	42,602	965	5,040	35,501
379	Transportation equipment, n.e.c.....	45	21	2,004	9,460	1,708	3,276	7,144	18,683	1,241	784	5,697
38	Instruments and related products.....	267	114	24,600	151,722	17,414	34,822	93,678	311,015	9,886	23,264	207,697
381	Scientific instruments.....	44	20	1,650	9,689	1,249	2,484	6,205	18,291	547	2,014	16,420
382	Mechanical measuring devices	55	31	13,289	87,741	8,885	17,866	52,056	177,611	6,057	13,282	121,626
384	Medical instruments and supplies.....	91	34	5,560	30,236	4,122	8,152	18,776	76,160	1,808	4,873	49,137
385	Ophthalmic goods.....	30	9	1,170	5,866	874	1,777	4,059	9,890	(z)	867	6,022
386	Photographic equipment.....	20	10	420	2,089	300	602	1,233	4,102	(z)	355	2,993
39	Miscellaneous manufacturing, including ordnance ³	709	214	30,660	145,273	25,181	49,342	94,604	298,518	11,736	33,075	264,147
391	Jewelry and silverware.....	77	8	539	2,574	397	783	1,770	5,291	(z)	509	4,052
393	Musical instruments and parts.....	13	7	823	3,668	746	1,459	3,046	6,578	(z)	777	5,380
394	Toys and sporting goods....	132	58	8,304	30,995	7,319	13,575	24,006	55,822	3,488	6,822	42,144
395	Pens, pencils and office supplies.....	56	16	2,219	11,308	1,658	3,285	7,145	21,289	604	2,203	16,082
396	Costume jewelry and notions.	39	15	2,403	11,151	1,724	3,369	6,917	16,519	559	2,750	18,336
398	Miscellaneous manufactures ³ .	392	110	16,372	85,577	13,337	26,871	51,720	193,019	6,359	20,014	178,153
399		190										
--	Administrative and auxiliary ⁴ .	-	-	69,017	628,778	-	-	-	-	-	64,437	-

- Represents zero. n.e.c. Not elsewhere classified. (z) Less than \$500 thousand. ^R Revised.¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) to avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishments(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishments at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALLENTOWN-BETHLEHEM-EASTON SMSA (Consists of Lehigh and Northampton Counties, Pa., and Warren County, N.J.)												
	All industries, total ²	1,017	543	94,114	521,288	70,171	132,081	325,375	817,257	55,182	93,923	683,803
20	Food and kindred products.....	123	40	5,589	31,767	3,421	7,066	16,607	71,369	3,946	5,164	46,387
201	Meat products.....	15	1	589	3,436	411	811	2,193	5,149	(Z)	660	4,220
202	Dairies.....	19	5	1,110	6,694	550	1,157	2,988	13,420	1,192	1,110	9,203
204	Grain mill products.....	11	4	337	1,880	233	561	1,059	6,805	549	261	2,552
205	Bakery products.....	31	11	1,085	5,400	708	1,483	3,157	10,131	(Z)	1,023	7,382
208	Beverages.....	20	10	635	3,598	336	709	1,692	9,213	(Z)	616	6,204
209	Miscellaneous foods and kindred products.....	16	4	611	2,958	312	628	1,269	5,520	(Z)	479	4,702
22	Textile mill products.....	91	63	6,417	28,115	5,623	11,525	22,423	53,086	1,637	6,918	39,404
222	Weaving mills, synthetics....	15	13	884	3,500	812	1,561	2,966	4,671	(Z)	1,305	6,319
225	Knitting mills.....	39	26	3,102	12,568	2,654	5,354	9,585	25,199	756	3,198	17,895
226	Textile finishing, except wool.....	13	10	1,209	6,338	1,079	2,544	5,545	11,591	(Z)	1,115	6,714
228	Yarn and thread mills.....	6	4	382	1,533	352	589	1,145	2,543	(Z)	493	2,434
23	Apparel and related products... Men's and boys' suits and coats.....	273	212	19,941	61,817	18,475	31,288	52,729	93,345	1,319	17,654	64,789
231	Men's and boys' suits and coats.....	9	5	1,931	8,092	1,694	3,063	6,038	12,587	(Z)	1,765	8,640
232	Men's and boys' furnishings....	36	27	4,068	13,039	3,743	5,955	10,806	16,737	(Z)	3,302	10,982
233	Women's and misses' outerwear	159	132	9,027	26,201	8,517	14,440	23,932	37,602	745	7,097	21,748
234	Women's and children's underwear.....	23	20	1,653	5,102	1,548	2,565	4,256	9,323	(Z)	2,494	9,847
238	Miscellaneous apparel.....	9	8	739	1,909	597	1,183	1,657	3,046	(Z)	812	2,833
239	Fabricated textiles, n.e.c....	13	5	1,241	3,930	1,106	2,224	3,075	9,436	(Z)	886	5,687
25	Furniture and fixtures.....	24	9	509	2,099	442	892	1,701	3,256	(Z)	524	3,303
26	Paper and allied products.....	23	13	2,524	14,993	1,652	3,415	8,304	23,829	2,722	2,861	17,308
27	Printing and publishing.....	89	24	3,318	18,551	1,946	3,928	10,287	28,897	1,419	2,535	20,307
271	Newspapers.....	16	5	1,231	7,507	451	900	2,737	13,600	(Z)	824	7,678
275	Commercial printing.....	49	15	1,681	9,110	1,314	2,679	6,631	13,072	980	1,492	10,016
28	Chemicals and allied products.. Basic chemicals.....	38	19	2,369	14,119	1,550	3,218	8,282	31,106	3,513	2,392	24,724
281	Basic chemicals.....	18	11	1,750	10,408	1,114	2,297	6,065	19,554	1,584	1,708	16,129
31	Leather and leather products... Stone, clay and glass products..	11	10	1,256	4,919	1,171	2,328	4,211	8,414	(Z)	1,117	5,133
32	Stone, clay and glass products.. Cement, hydraulic.....	80	37	4,610	27,121	3,894	7,597	21,323	61,355	5,176	5,549	72,997
324	Cement, hydraulic.....	15	15	3,207	20,415	2,708	5,198	16,009	50,640	3,798	4,069	62,263
327	Concrete and plaster products.. Fabricated metal products.....	33	7	428	2,084	343	684	1,597	3,955	599	411	3,340
34	Fabricated metal products..... Structural metal products..	80	32	5,242	29,903	4,036	7,893	21,237	42,399	1,354	5,889	54,909
344	Structural metal products.. Fabricated metal products, n.e.c.....	39	10	2,585	16,009	1,914	3,619	10,878	16,191	(Z)	3,134	33,903
349	Fabricated metal products, n.e.c.....	7	5	1,239	6,681	1,019	1,972	5,137	10,880	(Z)	1,053	7,511
35	Machinery, except electrical... Special industry machinery...	66	26	6,265	39,329	3,682	7,304	20,662	43,177	2,154	5,803	43,513
355	Special industry machinery...	12	6	572	3,645	427	887	2,501	5,096	(Z)	996	3,780
36	Electrical machinery.....	28	20	8,951	47,735	7,078	13,480	32,780	87,567	8,498	6,459	61,217
--	Administrative and auxiliary ⁴ ..	-	-	5,292	54,488	-	-	-	-	-	5,588	-
LANCASTER SMSA (Coextensive with Lancaster County, Pa.)												
	All industries, total ²	662	287	47,893	256,847	35,751	71,595	159,701	525,581	28,779	44,030	367,964
20	Food and kindred products.....	143	41	4,371	19,673	2,910	6,273	11,109	41,711	2,324	4,207	32,637
201	Meat products.....	17	7	855	3,297	729	1,661	2,522	5,493	(Z)	777	4,028
202	Dairies.....	29	12	915	4,838	349	794	1,740	11,358	541	939	9,982
204	Grain mill products.....	24	3	306	1,492	172	415	743	3,042	(Z)	337	3,402
205	Bakery products.....	26	5	745	3,174	473	953	1,638	5,376	(Z)	760	4,701
207	Candy and related products... Miscellaneous foods and kindred products.....	12	5	804	3,948	637	1,383	2,657	9,445	(Z)	836	6,398
209	Miscellaneous foods and kindred products.....	26	6	529	2,195	412	787	1,364	5,213	(Z)	335	2,411
21	Tobacco manufactures.....	10	6	477	1,652	431	863	1,286	2,551	(Z)	927	6,145
22	Textile mill products.....	18	15	1,809	7,395	1,631	3,247	5,879	13,589	(Z)	2,157	11,269
225	Knitting mills.....	9	8	1,016	4,149	925	1,855	3,295	7,936	(Z)	1,176	6,517
23	Apparel and related products... Women's and misses' outerwear	57	51	6,110	19,136	5,702	10,790	16,515	28,808	562	5,721	22,312
233	Women's and misses' outerwear	13	12	998	2,830	936	1,675	2,542	3,734	(Z)	848	3,161
234	Women's and children's underwear.....	16	15	1,959	6,357	1,834	3,472	5,468	11,426	(Z)	2,046	8,473
236	Children's outerwear.....	15	15	1,982	5,800	1,878	3,580	5,137	7,589	(Z)	1,716	5,551
24	Lumber and wood products.....	37	6	411	1,814	334	697	1,363	2,787	(Z)	395	1,740
25	Furniture and fixtures.....	19	8	371	1,678	288	569	1,154	2,700	(Z)	473	3,497
26	Paper and allied products.....	11	9	613	2,974	524	1,056	2,382	5,056	(Z)	378	2,129
27	Printing and publishing.....	68	15	1,878	11,021	1,431	2,907	8,088	17,712	1,398	1,835	14,115
271	Newspapers.....	11	3	533	2,863	302	578	1,744	5,342	(Z)	578	4,644
275	Commercial printing.....	42	10	1,163	7,051	998	2,034	5,592	10,299	1,070	1,083	7,990
31	Leather and leather products...	25	20	3,476	12,054	3,205	5,835	9,959	17,161	(Z)	3,236	13,944

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
LANCASTER SMSA—Continued (Coextensive with Lancaster County, Pa.)												
32	Stone, clay and glass products.	25	11	1,835	10,744	1,343	2,768	6,996	22,376	1,486	1,722	15,072
33	Primary metal industries.....	34	18	2,352	13,670	1,960	3,922	9,609	22,164	5,697	1,413	12,178
332	Iron and steel foundries.....	13	11	1,261	6,671	1,114	2,097	5,350	9,558	(Z)	941	6,082
34	Fabricated metal products.....	53	30	4,482	24,589	3,749	7,448	18,811	54,367	2,625	4,246	38,153
342	Cutlery, hand tools, hardware	10	7	879	3,937	711	1,368	2,742	6,906	(Z)	884	4,985
343	Plumbing and heating, except electric.....	6	4	367	2,002	301	588	1,477	5,494	(Z)	326	3,775
345	Screw machine products.....	6	5	532	3,134	414	921	2,207	5,387	(Z)	544	3,581
35	Machinery, except electrical...	79	24	4,320	28,565	2,821	6,076	16,401	54,950	1,352	4,062	52,812
356	General industrial machinery.	15	5	789	5,861	639	1,373	4,387	11,554	(Z)	723	8,620
36	Electrical machinery.....	12	8	5,213	34,265	3,339	7,026	17,059	86,230	5,276	4,140	45,293
37	Transportation equipment.....	18	7	643	3,534	513	1,076	2,731	5,474	(Z)	684	4,799
--	Administrative and auxiliary ⁴ .	-	-	2,515	22,803	-	-	-	-	-	1,735	-
PHILADELPHIA SMSA (Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N.J.)												
	All industries, total ²	8,125	3,116	537,439	3,320,978	374,723	745,962	1,994,730	5,987,310	297,576	³ 536,912	4,826,261
20	Food and kindred products.....	754	324	45,117	260,305	29,445	61,537	152,803	626,455	33,217	50,675	533,490
201	Meat products.....	127	52	5,856	35,600	4,329	9,506	24,374	72,055	2,609	6,058	55,907
202	Dairies.....	121	70	7,526	44,528	2,959	6,125	15,056	99,661	5,037	8,976	92,593
203	Canned and frozen foods.....	81	35	7,051	36,099	5,763	11,271	25,761	116,824	4,269	7,283	93,397
205	Bakery products.....	166	67	12,388	70,970	8,121	17,271	43,244	140,904	5,099	13,411	124,147
207	Candy and related products...	71	27	3,022	13,109	2,463	5,048	9,366	25,011	1,211	4,878	41,868
208	Beverages.....	77	31	4,914	32,221	2,734	5,537	16,120	84,041	7,121	5,574	63,666
209	Miscellaneous foods and kindred products.....	80	27	1,620	8,684	1,040	2,130	4,771	21,122	1,180	1,724	21,533
21	Tobacco manufactures.....	9	5	2,277	8,684	2,029	3,821	6,677	27,061	(Z)	4,353	30,760
22	Textile mill products.....	445	272	29,134	125,996	25,335	49,118	96,128	229,740	8,727	33,795	214,286
221	Weaving mills, cotton.....	12	6	641	2,963	584	1,243	2,360	4,809	(Z)	1,292	6,158
222	Weaving mills, synthetics....	11	8	1,057	5,011	959	1,925	4,279	8,395	(Z)	1,164	10,598
223	Weaving, finishing mills, wool.....	37	23	2,358	11,217	2,040	4,050	8,763	15,868	524	3,065	19,881
224	Narrow fabric mills.....	28	18	1,183	4,827	1,043	2,007	3,648	7,906	(Z)	1,727	8,360
225	Knitting mills.....	192	120	13,417	52,935	11,902	22,083	41,770	90,905	3,433	13,951	46,349
226	Textile finishing, except wool.....	38	20	1,786	8,944	1,488	3,185	6,575	22,094	637	2,216	14,925
227	Floor covering mills.....	22	14	1,907	9,717	1,571	3,052	6,736	25,063	828	2,913	26,559
228	Yarn and thread mills.....	41	31	2,820	11,343	2,583	5,110	8,961	19,795	1,880	3,879	25,170
229	Miscellaneous textile goods...	64	32	3,965	19,039	3,165	6,463	13,036	34,905	1,141	3,588	26,286
23	Apparel and related products...	977	526	56,476	216,379	50,070	91,285	173,355	369,199	4,639	56,369	292,216
231	Men's and boys' suits and coats.....	135	91	18,539	81,747	16,602	30,917	67,615	125,202	1,175	17,772	106,613
232	Men's and boys' furnishings...	132	83	8,604	29,749	7,861	14,562	24,417	48,436	(Z)	8,240	37,256
233	Women's and misses' outerwear	282	181	13,818	49,972	12,124	21,099	38,521	101,202	1,200	13,400	63,245
234	Women's and children's underwear.....	23	16	1,281	4,198	1,178	2,173	3,444	8,271	(Z)	1,441	6,151
236	Children's outerwear.....	79	57	5,719	19,978	4,991	8,869	15,971	37,777	(Z)	5,609	28,319
238	Miscellaneous apparel.....	47	25	1,939	6,453	1,761	3,192	5,160	9,845	(Z)	1,930	10,259
239	Fabricated textiles, n.e.c....	230	61	5,048	16,905	4,264	8,058	12,677	28,582	764	5,268	25,507
24	Lumber and wood products.....	206	43	3,019	14,968	2,320	4,550	10,341	29,342	1,583	3,022	20,015
242	Sawmills and planing mills...	36	4	280	1,098	122	474	862	1,681	(Z)	209	980
243	Millwork and related products	81	21	1,590	8,802	1,122	2,156	5,551	19,760	1,143	1,532	11,321
244	Wooden containers.....	20	9	436	1,909	376	756	1,459	2,387	(Z)	555	2,827
249	Miscellaneous wood products..	56	8	643	3,023	531	1,034	2,283	5,399	(Z)	686	4,657
25	Furniture and fixtures.....	281	74	7,489	38,176	6,107	12,287	28,944	59,603	1,653	7,509	57,839
251	Household furniture.....	153	39	3,427	14,558	2,906	5,573	11,296	24,305	866	4,454	31,352
252	Office furniture.....	19	9	974	5,001	828	1,720	3,998	8,884	(Z)	901	9,614
253	Public building furniture....	9	3	400	2,613	299	626	1,750	3,736	(Z)	165	1,156
254	Partitions and fixtures.....	74	18	1,927	12,804	1,504	3,348	9,622	17,811	(Z)	1,384	10,441
259	Furniture and fixtures, n.e.c.....	26	5	761	3,200	570	1,020	2,278	4,867	(Z)	605	5,276
26	Paper and allied products.....	243	170	20,818	124,536	16,565	34,961	89,370	271,030	17,891	19,505	219,008
262	Paper mills, except building.	12	12	2,096	15,549	1,662	3,900	12,334	30,431	3,216	2,220	30,868
264	Paper and paperboard products	97	57	6,684	40,003	5,223	10,704	28,099	120,026	5,001	5,786	84,691
265	Paperboard containers and boxes.....	118	85	9,080	48,794	7,253	14,916	33,464	83,784	6,219	8,789	72,387
27	Printing and publishing.....	1,038	242	36,876	224,619	23,519	45,202	139,902	425,193	13,934	37,406	340,587
271	Newspapers.....	112	33	8,657	52,621	4,244	7,635	26,461	83,677	3,328	8,203	60,929
272	Periodicals.....	61	11	5,988	34,979	1,736	3,291	10,959	127,786	746	6,641	101,259
273	Books.....	48	18	2,044	12,470	1,205	2,539	7,080	28,538	645	2,506	27,452
274	Miscellaneous publishing....	38	5	294	1,340	94	175	474	2,326	(Z)	377	3,439
275	Commercial printing.....	592	100	13,559	86,781	11,054	21,473	67,271	131,981	7,107	14,439	108,420
276	Manifold business forms....	16	9	674	4,222	508	1,072	2,751	6,845	(Z)	568	5,528
277	Creting card manufacturing..	8	5	283	1,251	230	461	895	1,704	(Z)	311	1,680
278	Bookbinding and related work.	63	30	2,519	11,766	2,201	4,171	9,038	17,770	953	1,852	10,390
279	Printing trades services.....	100	31	3,858	19,189	2,247	4,385	14,973	24,566	622	2,509	21,490

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PHILADELPHIA SMSA—Continued (Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N.J.)												
28	Chemicals and allied products...	413	168	33,912	237,951	19,871	39,737	115,864	777,805	47,989	29,739	554,858
281	Basic chemicals.....	60	31	6,731	48,628	4,326	8,747	28,536	141,877	18,845	5,974	94,314
282	Fibers, plastics, rubbers....	32	21	8,320	58,577	5,102	10,185	31,588	133,251	9,347	7,025	93,989
283	Drugs.....	50	21	8,315	64,153	3,978	7,511	22,678	359,344	11,576	7,159	258,310
284	Cleaning and toilet goods....	98	33	3,586	20,574	2,401	4,687	11,226	55,532	1,996	2,506	33,198
285	Paints and allied products....	62	27	3,140	21,086	1,779	3,804	10,300	53,459	3,753	3,582	38,503
289	Miscellaneous chemical products.....	96	30	2,846	18,679	1,738	3,626	8,868	32,036	2,078	2,467	28,808
29	Petroleum and coal products....	53	23	12,494	98,206	9,312	18,935	67,507	204,098	25,312	16,473	158,179
291	Petroleum refining.....	9	6	11,038	86,985	8,518	17,139	62,590	180,209	24,163	14,578	133,499
295	Paving and roofing materials..	24	6	495	3,139	327	778	2,017	8,004	(D)	494	6,363
299	Petroleum and coal products, n.e.c.....	20	11	961	8,082	467	1,018	2,900	15,885	(D)	1,401	18,317
30	Rubber and plastics products, n.e.c.....	163	64	12,318	76,603	10,053	19,990	57,872	168,676	8,261	11,396	139,611
307	Plastics products, n.e.c.....	112	38	4,326	21,724	3,543	6,759	15,393	38,099	3,310	3,687	28,262
31	Leather and leather products....	84	40	4,401	18,797	3,659	7,125	14,349	28,871	5,009	6,468	37,058
311	Leather tanning and finishing..	14	8	1,273	6,588	1,020	1,963	4,615	8,848	(Z)	2,253	15,875
312	Industrial leather belting....	6	4	429	2,269	327	648	1,476	4,126	(Z)	353	2,589
314	Footwear, except rubber.....	16	8	1,292	4,788	1,122	2,186	4,112	7,965	(Z)	2,182	10,360
316	Luggage.....	14	9	390	1,509	318	626	1,374	2,659	(Z)	401	2,088
317	Purses and small leather goods.	17	9	777	2,564	680	1,271	2,009	3,624	(Z)	940	4,180
32	Stone, clay and glass products..	317	110	12,757	76,175	10,059	20,873	55,256	154,384	15,558	12,954	135,379
323	Products of purchased glass....	45	12	1,024	5,203	888	1,820	3,890	9,819	(Z)	1,130	7,522
325	Structural clay products.....	16	11	2,384	13,055	1,987	3,864	9,758	27,087	776	1,854	18,439
327	Concrete and plaster products..	138	41	3,246	20,015	2,398	5,126	13,681	45,294	7,177	2,978	38,146
329	Nonmetallic mineral products... ²	81	37	5,133	32,473	3,927	8,202	23,481	60,807	6,659	5,870	59,412
33	Primary metal industries.....	186	100	31,464	215,959	24,246	48,843	157,452	462,553	19,700	33,626	378,673
331	Steel rolling and finishing....	29	23	20,126	146,314	15,262	30,411	107,006	345,751	13,382	19,838	260,272
332	Iron and steel foundries.....	36	31	4,530	27,561	3,712	7,214	21,045	40,520	2,563	6,147	46,748
334	Secondary nonferrous metals... ³	22	9	1,182	7,047	852	1,737	4,375	16,900	524	1,072	15,871
336	Nonferrous foundries.....	53	13	2,212	13,704	1,889	3,762	11,222	21,623	1,272	2,749	21,598
339	Primary metal industries, n.e.c.....	27	10	1,012	6,944	757	1,500	4,497	14,431	885	2,167	19,112
34	Fabricated metal products.....	928	321	44,407	270,606	35,440	72,426	200,171	446,103	21,342	45,506	391,442
342	Outletry, hand tools, hardware.	62	27	2,516	12,610	2,096	4,193	9,760	23,429	747	3,100	22,271
343	Plumbing and heating, except electric.....	35	16	2,832	17,755	2,129	4,239	11,787	34,426	1,030	2,473	26,720
344	Structural metal products.....	397	128	13,036	76,700	9,902	19,650	52,263	116,799	4,544	15,369	130,662
345	Screw machine products.....	81	19	4,516	28,038	3,613	7,864	21,623	43,856	1,120	4,444	41,261
346	Metal stampings.....	75	31	8,724	61,728	7,219	14,614	48,852	96,981	3,768	9,251	69,867
348	Fabricated wire products, n.e.c.....	55	21	2,085	11,201	1,740	3,590	8,614	19,540	1,605	2,099	15,821
349	Fabricated metal products, n.e.c.....	114	53	6,354	36,419	4,954	10,052	25,055	56,218	2,461	4,635	39,156
35	Machinery, except electrical... ⁴	983	233	45,545	306,099	30,430	61,039	182,919	498,584	31,272	43,261	374,259
352	Farm machinery and equipment..	10	6	316	1,591	225	466	1,017	2,396	(Z)	339	2,050
353	Construction and like equipment	54	18	4,311	29,273	2,398	5,177	15,341	54,382	1,129	4,337	40,228
354	Metalworking machinery.....	239	36	3,391	22,161	2,665	5,696	16,312	34,471	2,498	2,712	25,056
355	Special industry machinery....	128	51	7,882	54,361	5,335	11,034	32,003	78,196	3,490	8,028	61,754
356	General industrial machinery..	137	42	9,132	60,682	6,169	12,194	37,059	112,122	4,372	9,587	86,083
358	Service industry machines....	73	22	5,214	31,675	3,312	6,435	17,821	53,915	2,408	1,739	12,625
359	Miscellaneous machinery.....	311	50	4,435	25,812	3,465	7,457	19,590	41,934	1,936	4,362	34,346
36	Electrical machinery.....	366	177	55,520	383,363	38,138	76,693	222,135	594,925	19,065	46,614	442,464
361	Electric distribution products.....	55	20	9,793	70,676	5,938	12,295	37,456	113,758	4,239	9,369	115,146
362	Electric industrial apparatus..	41	18	3,278	19,651	2,067	4,780	9,770	37,271	1,216	2,131	19,933
363	Household appliances.....	11	6	1,191	5,366	1,040	1,988	4,023	10,000	(Z)	1,647	10,704
364	Lighting and wiring devices... ⁵	95	53	4,945	24,195	4,015	8,084	16,696	49,685	1,741	5,311	40,638
367	Electronic components.....	70	31	6,400	35,932	4,385	8,307	20,778	59,389	3,879	7,031	45,346
369	Electrical products, n.e.c.....	23	10	2,215	13,289	1,431	2,777	7,117	24,616	781	2,174	17,302
37	Transportation equipment.....	127	59	35,876	273,943	21,832	45,178	142,714	370,661	17,442	28,251	284,638
371	Motor vehicles and equipment..	61	26	5,632	37,162	4,504	9,074	27,162	70,952	4,241	7,459	94,397
372	Aircraft and parts.....	31	18	20,259	166,542	8,453	18,387	56,477	210,372	11,667	8,632	103,730
38	Instruments and related products.	180	68	13,454	88,380	8,744	17,630	49,655	159,515	5,672	12,890	105,195
381	Scientific instruments.....	30	14	1,094	6,628	812	1,623	4,035	9,327	(Z)	878	6,220
382	Mechanical measuring devices..	41	20	9,696	67,320	5,980	12,235	37,195	124,444	4,780	9,884	84,146
384	Medical instruments and supplies.....	61	17	1,981	10,461	1,431	2,734	5,619	18,905	(Z)	1,667	11,180
386	Photographic equipment.....	18	8	334	1,656	237	482	956	2,922	(Z)	316	2,369
39	Miscellaneous manufacturing, including ordnance ³	384	95	9,292	43,348	7,362	14,361	30,267	77,867	3,235	15,360	116,304
394	Toys and sporting goods.....	53	22	2,387	8,708	1,945	3,591	5,877	18,072	1,583	2,319	16,367
395	Pens, pencils and office supplies.....	41	9	1,085	5,882	711	1,473	3,206	9,675	(Z)	1,353	9,983
396	Costume jewelry and notions... ⁶	25	8	466	2,056	396	791	1,462	2,898	(Z)	677	3,878
398	Miscellaneous manufactures ³ ...	207	51	4,901	24,380	3,986	7,864	18,220	42,556	1,221	10,343	80,425
190	Administrative and auxiliary ⁴ ...	-	-	24,793	217,885	-	-	-	-	-	21,740	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PITTSBURGH SMSA (Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.)												
	All industries, total ²	2,471	877	274,083	1,936,555	183,454	356,663	1,133,230	2,890,300	201,557	3,305,752	2,622,340
20	Food and kindred products.....	375	124	15,850	92,239	9,478	18,895	51,248	210,692	6,203	19,751	185,539
201	Meat products.....	57	18	1,967	11,178	1,391	2,981	7,806	14,404	654	2,518	20,101
202	Dairies.....	79	32	3,758	24,448	1,316	2,693	8,005	50,428	1,946	4,989	48,784
204	Grain mill products.....	8	4	272	1,246	153	326	629	2,710	(Z)	219	1,440
205	Bakery products.....	84	30	3,890	21,521	2,448	4,861	12,970	46,363	765	4,546	42,705
207	Candy and related products..	28	5	643	2,674	534	1,052	2,056	5,108	(Z)	1,044	6,826
208	Beverages.....	65	18	2,824	19,325	1,676	3,390	11,268	40,910	1,940	3,047	37,665
209	Miscellaneous foods and kindred products.....	44	12	894	4,334	575	1,088	2,275	11,638	(Z)	953	10,142
22	Textile mill products.....	6	2	312	1,058	286	569	931	1,478	(Z)	200	813
23	Apparel and related products..	63	24	2,131	6,905	1,824	3,272	5,379	11,539	(Z)	2,166	10,758
233	Women's and misses' outerwear	14	11	1,016	3,008	866	1,515	2,408	4,210	(Z)	679	2,667
239	Fabricated textiles, n.e.c....	32	9	633	2,253	542	1,027	1,640	3,633	(Z)	756	4,792
24	Lumber and wood products.....	92	12	965	4,578	749	1,442	3,034	8,229	577	732	6,212
243	Millwork and related products	36	9	599	3,247	433	850	1,934	5,644	(Z)	357	3,633
25	Furniture and fixtures.....	75	13	1,255	6,540	1,007	1,989	4,495	9,349	(Z)	1,795	10,789
251	Household furniture.....	37	6	472	2,351	362	701	1,399	4,085	(Z)	1,079	6,729
254	Partitions and fixtures.....	23	5	391	2,536	322	718	1,867	2,788	(Z)	288	1,973
26	Paper and allied products.....	36	22	3,326	16,923	2,644	5,281	12,008	32,696	1,746	3,314	29,405
265	Paperboard containers and boxes.....	19	15	2,191	11,445	1,677	3,466	8,162	19,792	1,006	2,329	19,294
27	Printing and publishing.....	344	66	7,583	47,921	4,927	9,765	30,713	81,175	5,823	9,008	73,273
271	Newspapers.....	63	22	3,745	25,409	2,179	4,446	15,243	43,567	4,396	4,612	38,102
273	Books.....	11	2	250	1,185	165	363	801	2,239	(Z)	281	1,642
275	Commercial printing.....	208	28	2,792	16,555	2,099	4,031	11,422	26,985	941	3,107	23,875
279	Printing trades services.....	22	7	350	2,524	242	470	1,813	3,951	(Z)	401	4,132
28	Chemicals and allied products..	110	44	4,973	32,744	3,005	5,882	17,993	97,924	8,243	5,938	66,156
281	Basic chemicals.....	22	10	1,255	9,638	880	1,801	6,289	49,567	4,169	2,496	23,675
282	Fibers, plastics, rubbers.....	10	6	1,355	9,114	936	1,769	5,859	16,771	2,734	1,088	15,994
285	Paints and allied products..	20	14	1,226	7,878	534	1,097	2,888	15,196	717	1,225	14,912
289	Miscellaneous chemical products.....	30	8	726	4,201	466	893	2,305	12,397	(Z)	602	5,904
29	Petroleum and coal products....	25	7	637	4,021	426	836	2,519	8,198	(Z)	722	6,823
30	Rubber and plastics products, n.e.c.....	40	16	1,632	9,641	1,280	2,719	6,999	20,578	1,123	1,760	16,227
32	Stone, clay and glass products..	243	92	16,637	95,131	14,005	26,613	75,060	175,235	9,363	17,930	157,986
322	Pressed and blown glassware..	17	14	6,114	31,972	5,418	9,993	26,647	52,038	3,008	6,517	48,017
323	Products of purchased glass...	26	7	1,139	6,561	907	1,792	4,940	17,083	737	1,183	13,103
325	Structural clay products.....	28	20	1,425	7,277	1,215	2,259	5,708	12,419	1,683	1,570	10,823
326	Pottery and related products...	10	7	1,526	7,947	1,273	2,451	6,049	12,870	(Z)	1,667	9,421
327	Concrete and plaster products	103	22	1,465	7,547	1,109	2,220	5,367	18,069	1,269	1,721	16,868
329	Nonmetallic mineral products...	41	15	1,603	10,044	1,273	2,536	7,260	20,779	865	1,668	17,836
33	Primary metal industries.....	161	109	105,642	755,094	86,881	166,475	583,540	1,360,145	131,292	117,793	1,195,601
331	Steel rolling and finishing..	59	52	91,466	658,955	75,579	143,951	511,492	1,205,396	120,092	99,771	1,053,188
332	Iron and steel foundries.....	45	35	8,468	55,526	7,364	14,106	46,177	91,159	3,443	8,314	63,308
335	Nonferrous rolling and drawing.....	6	5	2,531	18,156	1,801	3,901	12,173	20,233	(D)	6,272	45,609
336	Nonferrous foundries.....	22	5	845	4,940	664	1,284	3,529	8,465	(Z)	1,010	8,575
339	Primary metal industries, n.e.c.....	17	8	1,045	7,405	822	1,744	5,439	13,352	(Z)	1,127	9,900
34	Fabricated metal products.....	327	145	26,785	167,849	20,142	39,023	114,573	282,047	9,883	32,512	313,301
342	Cutlery, hand tools, hardware	12	9	814	4,789	624	1,269	3,331	8,231	(Z)	1,233	10,037
343	Plumbing and heating, except electric.....	17	6	810	5,387	606	1,081	3,694	10,265	(Z)	959	8,564
344	Structural metal products....	149	61	13,773	86,954	10,217	19,223	58,771	121,625	5,513	16,822	154,262
345	Screw machine products.....	23	11	1,516	10,036	1,124	2,269	6,447	18,954	(Z)	1,992	17,383
346	Metal stampings.....	19	9	2,982	17,189	2,435	4,937	12,624	43,919	1,862	3,090	39,164
348	Fabricated wire products, n.e.c.....	24	10	737	4,058	586	1,261	2,946	6,237	(Z)	753	6,122
349	Fabricated metal products, n.e.c.....	46	29	4,597	29,196	3,216	6,246	18,556	55,109	1,128	6,004	65,483
35	Machinery, except electrical... Construction and like equipment.....	310	97	19,457	140,445	13,336	26,761	85,161	218,694	10,920	20,458	212,016
354	Metalworking machinery.....	20	13	1,233	9,064	823	1,671	5,321	17,606	(Z)	1,234	14,421
355	Special industry machinery...	78	36	7,139	49,921	5,604	10,964	35,703	79,178	4,426	7,204	57,643
356	General industrial machinery.	19	7	762	5,055	538	980	2,785	8,819	(Z)	700	6,658
36	Electrical machinery.....	60	23	3,671	27,809	1,880	3,929	11,339	40,281	1,580	3,465	26,598
361	Electric distribution products.....	87	45	19,199	128,036	13,595	27,366	80,779	226,445	7,684	19,919	201,764
362	Electric industrial apparatus	14	9	9,711	68,611	6,877	13,911	44,005	110,004	2,539	9,580	104,257
364	Lighting and wiring devices..	14	8	2,864	20,087	2,118	4,187	13,842	46,660	1,672	2,060	21,803
37	Transportation equipment.....	22	14	2,499	13,231	1,964	4,259	9,392	29,112	(Z)	3,740	42,201
		31	14	6,671	51,071	5,022	10,222	35,882	82,392	5,519	9,605	84,393

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PITTSBURGH SMSA—Continued (Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.)												
38	Instruments and related products.....	35	12	3,332	21,208	2,135	4,271	12,254	37,750	732	3,512	32,724
39	Miscellaneous manufacturing, including ordnance ³	99	30	3,301	15,950	2,565	5,003	10,224	24,759	1,609	2,642	17,972
394	Toys and sporting goods.....	20	6	1,188	4,305	992	1,788	2,799	7,800	(D)	852	4,891
395	Pens, pencils and office supplies.....	10	5	500	3,218	345	703	1,839	4,993	(Z)	605	4,004
398	Miscellaneous manufactures ³ ..	55	17	1,503	7,948	1,146	2,355	5,233	11,036	(Z)	1,076	8,483
399												
190												
--	Administrative and auxiliary ⁴ ..	-	-	34,228	338,626	-	-	-	-	-	35,864	-
READING SMSA (Coextensive with Berks County, Pa.)												
	All industries, total ²	669	303	49,965	252,185	39,110	76,271	171,753	420,369	23,391	48,429	341,515
20	Food and kindred products.....	120	40	4,955	21,826	3,381	6,701	12,676	48,379	2,400	4,356	30,356
202	Dairies.....	19	9	535	3,123	173	354	887	5,413	(Z)	443	2,948
203	Canned and frozen foods.....	7	4	323	961	280	548	675	4,779	(Z)	143	715
205	Bakery products.....	29	11	1,279	5,825	798	1,634	3,444	11,333	(Z)	1,291	8,215
207	Candy and related products..	23	8	1,801	6,146	1,563	3,026	4,752	15,684	853	1,342	9,814
208	Beverages.....	17	5	472	2,776	205	426	1,051	6,263	(Z)	481	4,534
22	Textile mill products.....	98	63	8,443	30,739	7,460	14,019	24,107	42,266	2,365	10,729	54,095
225	Knitting mills.....	84	54	7,109	25,105	6,281	11,631	19,613	33,653	1,661	9,404	45,402
23	Apparel and related products..	55	42	4,570	13,328	4,194	7,490	11,566	20,975	(Z)	4,569	18,557
232	Men's and boys' furnishings..	12	12	1,214	3,593	1,121	2,006	3,136	5,520	(Z)	1,521	5,797
233	Women's and misses' outerwear	17	14	1,355	3,945	1,272	2,258	3,574	6,107	(Z)	1,159	5,244
234	Women's and children's underwear.....	9	8	963	2,590	878	1,555	2,164	4,488	(Z)	1,061	4,158
24	Lumber and wood products.....	26	5	290	1,306	244	480	984	2,360	(Z)	270	1,536
25	Furniture and fixtures.....	22	9	846	3,452	696	1,318	2,586	5,640	(Z)	601	3,837
26	Paper and allied products.....	20	15	1,276	7,329	1,079	2,304	5,710	14,681	655	1,388	13,552
265	Paperboard containers and boxes.....	13	9	749	4,058	635	1,296	3,205	8,698	(Z)	877	8,664
27	Printing and publishing.....	45	8	1,067	5,899	689	1,323	3,387	10,735	671	941	7,450
275	Commercial printing.....	32	4	420	2,015	329	661	1,442	3,712	(Z)	245	1,287
28	Chemicals and allied products..	17	5	906	5,540	475	989	2,526	19,133	635	869	12,852
281	Basic chemicals.....	7	3	255	1,899	149	313	877	7,916	515	172	3,681
31	Leather and leather products..	12	11	1,892	6,961	1,723	3,227	5,678	10,699	(Z)	2,370	9,922
32	Stone, clay and glass products.	22	9	663	4,012	566	1,114	2,803	9,008	504	617	7,157
33	Primary metal industries.....	37	21	5,846	38,757	4,400	8,928	26,249	71,342	4,678	6,069	58,314
332	Iron and steel foundries.....	11	11	1,702	9,501	1,435	2,871	7,167	11,196	759	2,078	9,440
34	Fabricated metal products.....	52	25	2,818	14,824	2,085	3,853	9,612	22,920	800	2,605	19,653
342	Outlery, hand tools, hardware	8	5	378	1,798	340	665	1,499	3,187	(Z)	322	2,258
344	Structural metal products....	21	10	701	3,893	399	687	1,779	5,509	(Z)	701	6,780
35	Machinery, except electrical...	73	15	4,978	27,866	4,011	8,153	21,074	39,244	2,333	4,261	28,390
36	Electrical machinery.....	25	14	5,255	31,044	3,836	7,488	18,649	46,876	5,385	3,711	29,502
369	Electrical products, n.e.c....	6	4	1,223	7,558	986	1,870	5,424	15,020	(Z)	928	8,329
37	Transportation equipment.....	15	8	3,561	23,166	2,937	6,128	17,921	42,200	1,258	2,792	29,015
39	Miscellaneous manufacturing....	17	8	799	3,588	658	1,350	3,110	5,984	(Z)	823	8,232
--	Administrative and auxiliary ⁴ ..	-	-	916	8,017	-	-	-	-	-	259	-
WILKES-BARRE-HAZLETON SMSA (Coextensive with Luzerne County, Pa.)												
	All industries, total ²	762	397	43,829	165,014	37,670	69,286	126,868	312,116	13,366	38,675	207,590
20	Food and kindred products.....	124	34	3,226	15,486	1,952	3,882	8,196	36,477	1,509	3,424	27,511
202	Dairies.....	41	9	706	3,667	310	633	1,275	6,756	(Z)	878	7,550
205	Bakery products.....	29	10	1,233	5,551	821	1,647	3,402	15,551	566	1,119	6,358
208	Beverages.....	26	5	728	3,763	367	696	1,706	9,115	(Z)	889	9,336
21	Tobacco manufactures.....	8	8	3,121	10,331	2,919	5,432	9,327	35,078	(Z)	3,363	24,975
22	Textile mill products.....	37	26	2,982	10,750	2,741	5,192	9,233	17,646	1,311	3,532	16,532
222	Weaving mills, synthetics....	8	6	833	3,084	798	1,456	2,741	3,491	(Z)	1,563	7,260
225	Knitting mills.....	10	6	762	2,480	701	1,316	2,199	3,190	(Z)	836	3,261
23	Apparel and related products..	267	216	17,680	50,207	16,345	27,975	42,948	72,166	5,252	15,150	48,745
233	Women's and misses' outerwear	195	167	11,362	30,435	10,476	17,452	25,961	40,888	4,832	7,513	23,040
234	Women's and children's underwear.....	7	6	1,220	3,332	1,125	1,930	2,967	4,425	(Z)	1,382	3,815
236	Children's outerwear.....	22	17	1,437	4,658	1,291	2,429	3,772	9,578	(Z)	1,685	6,892

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ²	All employ- ment, number	Value added by manufacture
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
WILKES-BARRE SMSA (Coextensive with Luzerne County, Pa.)												
25	Furniture and fixtures.....	20	10	1,040	4,534	834	1,769	3,304	7,946	(Z)	818	5,351
251	Household furniture.....	14	8	932	4,113	789	1,585	2,945	7,184	(Z)	620	4,269
27	Printing and publishing.....	49	10	1,166	6,877	842	1,523	4,762	10,361	(Z)	1,068	8,997
271	Newspapers.....	11	4	574	3,675	346	605	2,083	5,256	(Z)	558	4,944
30	Rubber and plastics products, n.e.c.....	10	4	1,143	4,654	985	1,845	3,620	9,044	(Z)	700	4,216
31	Leather and leather products...	21	17	3,336	10,798	3,096	5,852	8,980	20,506	(Z)	2,783	11,544
34	Fabricated metal products.....	32	13	1,879	10,281	1,418	2,816	7,078	20,143	1,153	2,053	18,528
344	Structural metal products....	15	5	886	4,834	648	1,289	3,151	7,024	(D)	872	6,060
35	Machinery, except electrical...	48	17	2,031	11,515	1,556	3,192	8,291	28,897	662	2,201	15,463
356	General industrial machinery.	7	3	753	4,258	627	1,326	3,350	11,528	(Z)	656	5,818
37	Transportation equipment.....	17	10	1,834	9,017	1,624	3,273	7,704	17,685	(Z)	751	7,524
39	Miscellaneous manufacturing, including ordnance ³	31	12	1,700	6,848	1,423	2,766	4,706	11,674	(Z)	1,053	6,312
--	Administrative and auxiliary ⁴ ..	-	-	224	1,217	-	-	-	-	-	-	-
YORK SMSA (Consists of Adams and York Counties, Pa.)												
	All industries, total ²	717	357	48,252	221,976	39,532	79,923	162,414	441,124	19,433	48,053	363,397
20	Food and kindred products.....	123	56	5,385	21,741	3,861	8,068	13,593	53,402	3,617	5,135	44,562
202	Dairies.....	22	12	758	3,799	282	546	1,272	7,069	685	765	6,415
203	Canned and frozen foods.....	17	13	2,206	7,271	1,976	4,000	5,986	23,023	1,616	1,988	17,637
204	Grain mill products.....	18	5	375	1,886	257	591	1,098	5,253	(Z)	439	4,620
205	Bakery products.....	27	11	927	4,029	527	1,153	2,172	8,755	(Z)	1,011	7,914
209	Miscellaneous foods and kindred products.....	18	6	621	2,639	485	1,086	1,876	5,425	663	451	3,839
21	Tobacco manufactures.....	39	18	1,428	4,541	1,324	2,574	3,752	12,014	(Z)	(D)	(D)
22	Textile mill products.....	24	18	2,992	12,637	2,803	5,679	10,931	21,682	(Z)	3,279	16,069
23	Apparel and related products...	62	54	6,234	18,267	5,914	10,688	16,827	24,088	(Z)	5,735	17,463
232	Men's and boys' furnishings....	11	11	1,710	4,861	1,643	2,966	4,534	5,966	(Z)	(D)	(D)
233	Women's and misses' outerwear	26	25	2,126	6,119	2,024	3,531	5,696	7,831	(Z)	1,389	4,166
236	Children's outerwear.....	8	8	960	2,825	873	1,678	2,478	4,998	(Z)	1,316	3,951
24	Lumber and wood products.....	50	7	620	2,209	526	1,091	1,718	3,821	702	440	2,339
25	Furniture and fixtures.....	44	29	3,846	18,645	3,165	6,825	14,075	32,873	(Z)	3,825	25,745
251	Household furniture.....	33	25	2,177	9,504	1,847	4,058	7,382	16,125	(Z)	2,195	14,037
26	Paper and allied products.....	34	23	3,114	19,067	2,582	5,677	14,022	38,970	1,320	3,025	32,619
264	Paper and paperboard products	13	7	445	2,017	358	662	1,351	4,173	(Z)	381	3,026
265	Paperboard containers and boxes.....	15	11	1,049	4,843	846	1,761	3,433	8,866	(Z)	(D)	(D)
27	Printing and publishing.....	56	18	2,424	12,643	1,875	3,859	9,616	23,671	583	2,155	15,846
271	Newspapers.....	5	4	521	2,777	274	562	2,003	3,707	(Z)	490	2,792
275	Commercial printing.....	30	5	384	1,803	266	523	1,061	2,903	(Z)	354	2,231
29	Petroleum and coal products...	9	4	340	1,730	272	565	1,324	4,117	(Z)	244	2,109
31	Leather and leather products...	24	19	4,317	14,098	4,120	8,207	12,507	22,685	(Z)	3,863	17,744
314	Footwear, except rubber.....	15	14	3,899	12,769	3,739	7,456	11,418	20,829	(Z)	3,404	15,937
32	Stone, clay and glass products.	39	13	1,275	6,850	1,030	2,265	4,881	14,863	2,610	1,253	13,349
327	Concrete and plaster products	25	7	518	2,930	372	803	1,793	5,542	(Z)	427	4,756
33	Primary metal industries.....	19	14	1,837	9,403	1,595	3,241	7,370	32,324	745	(D)	(D)
332	Iron and steel foundries.....	5	5	400	1,878	351	589	1,576	2,513	(Z)	379	2,024
34	Fabricated metal products.....	47	21	2,886	15,203	2,163	4,213	10,782	32,323	948	3,434	39,306
348	Fabricated wire products, n.e.c.....	6	5	1,254	6,365	1,015	1,966	4,920	13,084	(Z)	1,753	15,661
35	Machinery, except electrical....	80	29	6,010	36,136	4,140	8,629	22,664	70,200	4,851	7,598	77,268
354	Metalworking machinery.....	25	8	501	2,919	443	981	2,470	4,236	(Z)	319	2,129
355	Special industrial machinery.	13	5	446	2,997	351	818	2,111	5,000	(Z)	749	5,294
359	Miscellaneous machinery.....	22	4	338	1,617	283	562	1,247	2,829	(Z)	306	1,920
36	Electrical machinery.....	19	11	1,313	7,524	912	1,814	4,468	21,659	705	(D)	(D)
39	Miscellaneous manufacturing, including ordnance ³	15	7	1,149	6,216	922	1,996	4,705	8,695	(Z)	554	4,068
--	Administrative and auxiliary ⁴ ..	-	-	247	2,201	-	-	-	-	-	112	-

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

¹Revised.

²Includes expenditures for plants under construction but not in operation.

³The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas, or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
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1963 CENSUS OF MANUFACTURES

MC63(P)-S40



preliminary
report

Area series

RHODE
ISLAND

Value added by manufacturing in 1963 in the State of Rhode Island amounted to \$950 million, a decrease of 2 percent from 1962 and an increase of 26 percent from 1958. Of this total, \$162 million was contributed by textile mill products industries and \$150 million by the miscellaneous manufacturing and ordnance industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	2,692	857	113,924	535,055	90,036	177,125	366,054	r ³ 949,756	43,300	99	126
1962.....	(NA)	(NA)	118,940	549,714	92,573	184,701	372,487	r ³ 969,668	49,429	104	128
1961.....	(NA)	(NA)	118,238	520,127	91,551	181,300	351,764	r ³ 923,520	44,452	103	122
1960.....	(NA)	(NA)	120,029	511,443	95,582	187,728	353,219	r ³ 904,809	36,298	105	120
1959.....	(NA)	(NA)	r ³ 121,618	r ³ 506,084	r ³ 98,151	r ³ 193,740	r ³ 354,076	r ³ 904,471	33,118	106	120
1958.....	r ³ 2,737	r ³ 907	r ³ 114,511	r ³ 453,098	r ³ 91,393	r ³ 175,924	r ³ 314,338	r ³ 756,187	29,895	100	100

(NA) Not available. ^rRevised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1965 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

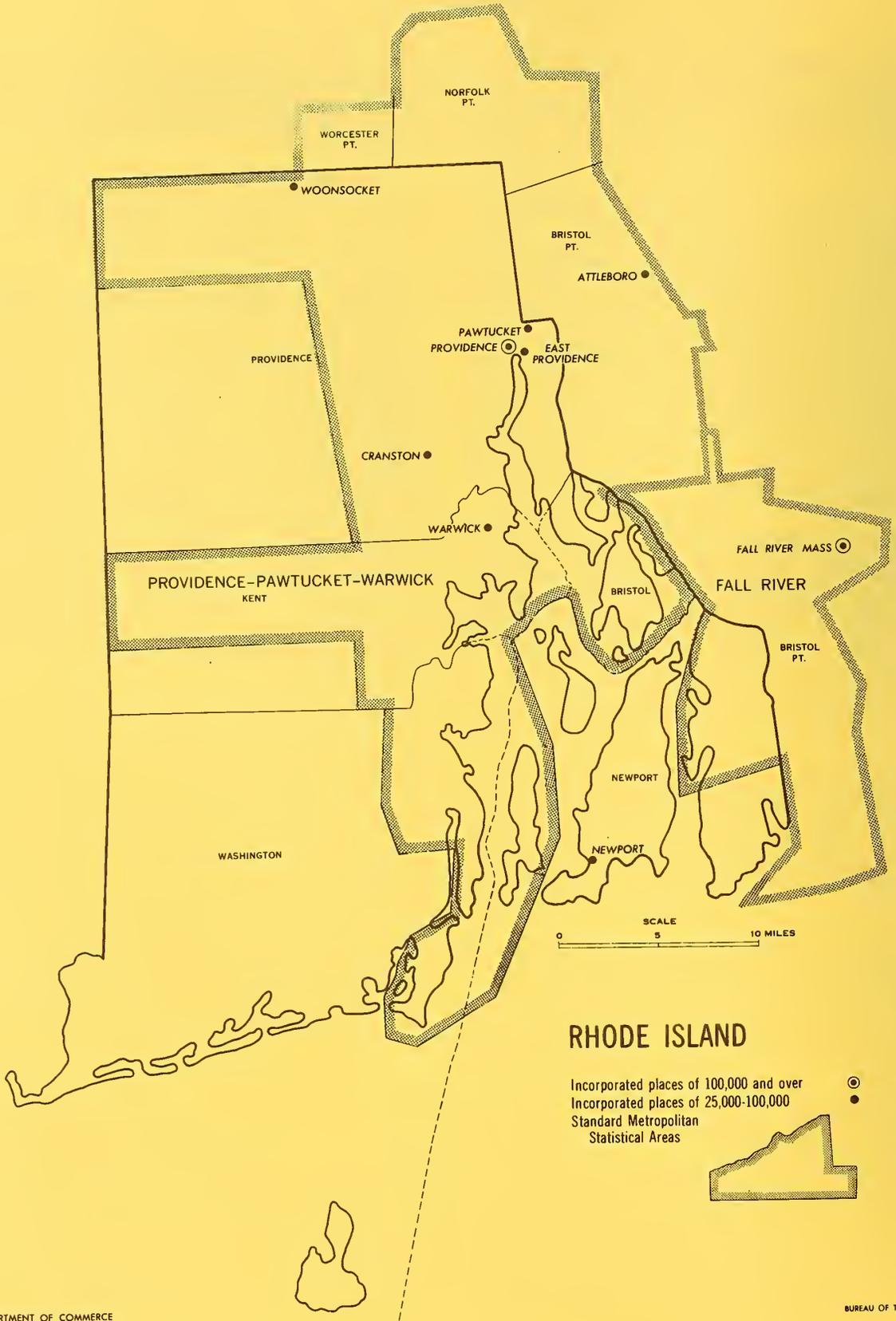


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
RHODE ISLAND, TOTAL.....	2,692	857	113,924	535,055	90,036	177,125	366,054	949,756	43,300	114,511	756,187
STANDARD METROPOLITAN STATISTICAL AREAS											
Fall River ⁴	342	190	22,875	83,935	19,835	36,258	65,452	138,267	4,075	23,665	112,722
Portion in Massachusetts.....	332	189	22,812	83,772	19,790	36,172	65,350	137,885	4,045	23,617	112,356
Portion in Rhode Island.....	10	1	63	163	45	86	102	382	(2)	48	366
Providence ⁵	2,904	943	125,754	596,409	99,186	196,968	406,358	1,067,491	47,230	127,150	852,083
Portion in Massachusetts.....	348	132	18,514	94,498	14,201	29,948	61,502	171,804	6,841	18,128	131,466
Portion in Rhode Island.....	2,556	811	107,240	501,911	84,985	167,020	344,856	895,687	40,389	109,022	720,617
COUNTIES ¹											
Bristol.....	72	31	5,577	25,181	4,634	8,757	18,097	42,632	1,312	5,267	34,183
Kent.....	254	85	11,532	53,885	9,210	18,391	37,777	100,836	6,036	8,767	55,296
Newport.....	51	11	1,554	9,080	730	1,423	3,060	13,252	(2)	742	7,283
Providence.....	2,242	702	91,505	429,809	72,252	142,097	294,278	762,670	34,300	95,788	635,600
Washington.....	73	28	3,756	17,100	3,210	6,457	12,842	30,366	1,276	3,947	23,825

(2) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Fall River Standard Metropolitan Statistical Area consists of Fall River city and Somerset, Swansea, and Westport towns in Bristol County, Mass.; and Tiverton town in Newport County, R.I.⁵The Providence Standard Metropolitan Statistical Area consists of Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield towns in Providence County, Narragansett and North Kingstown towns in Washington County, Warwick city and Coventry, East Greenwich, and West Warwick towns in Kent County, Jamestown town in Newport County, Barrington, Bristol, and Warren towns in Bristol County, R.I.; Attleboro city and North Attleboro, Rehoboth, and Seekonk towns in Bristol County, Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, and Blackstone and Millville towns in Worcester County, Mass.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	2,692	857	113,924	535,055	90,036	177,125	366,054	949,756	43,300	114,511	756,187
20	Food and kindred products.....	215	55	6,026	30,558	3,430	6,928	16,006	61,887	3,586	6,467	50,012
202	Dairies.....	58	22	1,368	6,966	514	1,085	2,451	17,356	1,556	1,642	12,843
208	Beverages.....	36	6	1,254	7,631	813	1,584	4,802	17,927	1,033	1,265	14,427
209	Miscellaneous Foods and kindred products.....	22	4	338	1,524	250	531	1,084	2,617	(2)	466	2,914
22	Textile mill products.....	335	195	22,916	95,756	20,152	40,054	75,588	161,838	6,799	28,516	149,083
222	Weaving mills, synthetics...	20	18	1,998	8,868	1,783	3,727	7,095	16,820	(2)	1,877	12,692
223	Weaving, finishing mills, wool.....	39	23	1,914	7,919	1,670	3,314	6,385	14,745	(2)	2,319	12,017
224	Narrow fabric mills.....	60	39	4,340	16,872	3,924	7,654	13,550	31,874	1,054	4,507	23,963
225	Knitting mills.....	16	11	1,722	6,972	1,467	2,852	5,185	14,001	1,284	898	7,538
226	Textile finishing, except wool.....	37	26	4,119	20,481	3,496	7,283	15,308	33,218	1,880	5,945	29,611
228	Yarn and thread mills.....	47	33	4,312	16,642	3,885	7,513	13,592	22,563	673	6,241	31,385
229	Miscellaneous textile goods.....	93	31	3,259	13,825	2,779	5,442	10,765	21,608	1,028	4,484	23,716
23	Apparel and related products.....	76	34	3,597	11,014	3,215	5,700	9,160	20,411	(2)	4,250	20,520
233	Women's and misses' outerwear.....	21	17	1,183	3,323	1,102	1,799	2,925	4,197	(2)	849	2,579
238	Miscellaneous apparel.....	12	5	381	1,229	322	501	969	1,778	(2)	551	3,120
24	Lumber and wood products.....	52	7	488	1,893	399	769	1,430	3,138	(2)	350	2,315

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
25	Furniture and fixtures.....	34	9	746	3,876	561	1,124	2,649	7,056	(Z)	606	4,196
254	Partitions and fixtures.....	12	5	273	1,846	208	466	1,356	3,121	(Z)	232	1,569
26	Paper and allied products....	48	29	2,241	9,629	1,856	3,766	6,770	16,367	942	1,841	11,935
265	Paperboard containers and boxes.....	28	20	1,583	6,029	1,319	2,551	4,054	9,859	668	1,303	7,140
27	Printing and publishing.....	185	34	3,912	23,036	2,625	5,031	14,764	38,406	2,580	3,640	29,784
271	Newspapers.....	22	7	1,617	9,883	822	1,500	5,178	16,660	(Z)	1,499	13,631
275	Commercial printing.....	121	17	1,392	7,785	1,125	2,266	5,895	12,608	1,733	1,400	9,915
28	Chemicals and allied products.	79	24	2,506	14,625	1,583	3,586	8,243	27,781	4,693	1,612	18,185
281	Basic chemicals.....	16	10	768	4,954	549	1,137	2,864	13,012	2,075	449	6,160
285	Paints and allied products..	10	3	274	1,493	85	211	408	3,040	(Z)	297	2,659
30	Rubber and plastics products, n.e.c.....	70	33	7,679	37,228	6,381	12,324	27,811	79,312	3,496	7,589	70,697
307	Plastics products, n.e.c....	46	18	2,056	8,120	1,717	3,238	5,789	25,553	2,366	2,645	28,908
31	Leather and leather products..	31	14	1,200	4,907	1,016	1,963	3,060	10,994	(Z)	1,643	9,522
32	Stone, clay and glass products	54	13	1,943	10,979	1,547	3,211	8,018	23,281	1,540	1,919	17,162
327	Concrete and plaster products.....	31	6	340	1,881	222	484	1,163	3,950	(Z)	346	3,417
33	Primary metal industries.....	89	41	9,627	51,474	8,034	16,098	38,741	98,292	5,388	8,577	74,874
335	Nonferrous rolling and drawing.....	25	21	6,924	35,504	5,729	11,569	26,584	83,666	3,627	6,086	53,584
34	Fabricated metal products....	354	73	7,521	36,608	6,039	12,082	26,033	63,753	2,689	7,899	56,013
342	Cutlery, hand tools, hardware.....	24	6	1,009	4,907	869	1,747	3,704	7,319	(Z)	1,676	11,446
344	Structural metal products....	64	11	779	3,889	572	1,170	2,620	7,481	(Z)	873	6,976
345	Screw machine products.....	54	14	1,414	7,110	1,151	2,454	5,168	10,847	561	1,360	9,368
346	Metal stampings.....	35	11	715	3,531	582	1,148	2,425	6,587	(Z)	614	4,865
347	Metal services, n.e.c.....	132	18	1,584	5,646	1,393	2,405	4,352	8,788	(Z)	1,408	6,890
349	Fabricated metal products, n.e.c.....	23	10	1,706	9,998	1,218	2,600	6,533	19,401	975	1,714	14,817
35	Machinery, except electrical..	250	44	9,085	53,655	6,317	12,608	32,817	88,562	3,524	8,249	60,989
354	Metalworking machinery.....	85	15	4,271	26,416	3,092	6,009	16,798	40,772	1,425	4,038	28,254
355	Special industry machinery..	42	14	2,925	17,056	1,893	4,052	9,809	30,480	1,376	2,222	17,902
356	General industrial machinery	22	7	792	4,384	530	975	2,413	8,138	(Z)	903	7,464
36	Electrical machinery.....	45	28	6,975	30,848	5,324	10,220	18,354	54,957	1,471	3,465	25,063
367	Electronic components.....	11	9	1,834	6,734	1,390	2,686	4,026	13,011	802	374	2,000
37	Transportation equipment:											
371	Motor vehicles and equipment	10	4	613	2,770	525	1,191	2,313	5,221	575	432	3,520
38	Instruments and related products.....	42	17	3,473	16,870	2,720	5,406	11,734	27,900	1,156	2,866	19,320
385	Ophthalmic goods.....	15	7	969	3,727	842	1,554	2,852	5,889	(Z)	863	4,519
39	Miscellaneous manufacturing, including ordnance ³	692	192	21,164	83,774	17,602	33,515	58,848	150,238	3,485	22,829	126,320
391	Jewelry and silverware.....	289	87	8,234	35,830	6,685	13,500	24,901	69,182	1,527	7,841	52,350
394	Toys and sporting goods.....	19	7	1,884	6,579	1,570	2,736	4,716	14,382	(Z)	1,266	8,272
396	Costume jewelry and notions.	310	84	9,599	35,817	8,114	14,769	24,937	56,403	1,293	12,344	59,141
398												
399	Miscellaneous manufactures ³ .	62	11	1,009	3,637	847	1,731	2,848	6,172	(Z)	1,083	5,020
190												
--	Administrative and auxiliary ⁴ .	-	-	1,302	10,112	-	-	-	-	-	1,095	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958
(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PROVIDENCE SMSA (Consists of Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield towns in Providence County, Narragansett and North Kingstown towns in Washington County, Warwick city and Coventry, East Greenwich, and West Warwick towns in Kent County, Jamestown town in Newport County, Barrington, Bristol, and Warren towns in Bristol County, R.I.; Attleboro city and North Attleboro, Rehoboth, and Seekonk towns in Bristol County, Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, and Blackstone and Millville towns in Worcester County, Massachusetts.)												
	All industries, total ²	2,904	943	125,754	596,409	99,186	196,968	406,358	1,067,491	47,230	127,150	852,083
20	Food and kindred products.....	208	52	5,883	30,119	3,389	6,855	16,020	61,545	3,458	6,351	49,279
202	Dairies.....	61	20	1,293	6,740	529	1,119	2,546	17,544	1,476	1,617	13,074
205	Bakery products.....	53	15	2,174	11,183	981	2,176	5,247	17,877	(Z)	2,157	13,382
22	Textile mill products.....	321	183	19,853	82,185	17,369	34,564	64,561	139,050	5,714	25,700	135,063
223	Weaving, finishing mills, wool.....	40	23	1,926	8,001	1,680	3,334	6,446	14,883	(Z)	2,562	14,576
229	Miscellaneous textile goods..	83	27	2,637	11,578	2,175	4,331	8,582	28,446	507	4,184	22,073
23	Apparel and related products...	80	35	3,699	11,404	3,315	5,878	9,499	21,086	(Z)	4,370	21,180
27	Printing and publishing.....	193	35	3,985	23,189	2,709	5,184	15,012	38,857	2,641	3,684	30,145
271	Newspapers.....	22	7	1,567	9,551	802	1,465	5,069	16,355	(Z)	1,451	13,395
275	Commercial printing.....	127	18	1,521	8,283	1,230	2,455	6,252	13,384	1,762	1,498	10,504
28	Chemicals and allied products..	85	27	2,750	15,883	1,806	4,019	9,274	32,092	4,634	1,698	19,328
30	Rubber and plastics products, n.e.c.....	79	38	8,015	38,680	6,660	12,866	28,815	81,541	3,591	7,895	72,470
31	Leather and leather products...	39	18	1,527	6,208	1,292	2,478	4,063	12,879	(Z)	2,164	12,395
317	Purses and small leather goods.....	19	10	595	2,118	506	1,003	1,568	3,132	(Z)	1,041	4,808
32	Stone, clay and glass products.	52	14	1,434	8,111	1,167	2,398	6,012	19,052	995	1,918	17,130
327	Concrete and plaster products	32	8	452	2,549	332	702	1,789	5,613	510	359	3,485
33	Primary metal industries.....	106	51	10,699	57,067	8,899	18,013	42,742	110,836	5,913	9,578	86,727
335	Nonferrous rolling and drawing.....	31	27	7,821	40,058	6,450	13,156	29,795	70,893	4,079	6,896	60,628
34	Fabricated metal products.....	399	88	9,718	49,285	7,743	15,909	34,431	85,203	3,755	9,489	65,583
342	Cutlery, hand tools, hardware	25	7	1,109	5,384	955	1,919	4,059	7,887	(Z)	1,896	12,872
344	Structural metal products....	68	14	1,606	9,391	1,153	2,561	5,917	18,192	872	893	7,116
346	Metal stampings.....	42	12	887	4,739	714	1,457	3,087	8,081	(Z)	937	6,332
347	Metal stampings, n.e.c.....	164	26	2,112	8,082	1,860	3,348	6,237	12,369	(Z)	1,849	9,677
35	Machinery, except electrical...	291	47	9,725	57,324	6,787	13,630	35,342	94,330	4,167	9,420	73,246
354	Metalworking machinery.....	110	16	4,456	27,674	3,248	6,361	17,853	42,424	1,501	4,225	30,530
355	Special industry machinery...	48	17	3,334	19,331	2,169	4,659	11,205	34,717	1,912	2,435	20,045
356	General industrial machinery.	24	6	761	4,223	506	904	2,293	7,487	(Z)	1,724	15,987
359	Miscellaneous machinery.....	82	6	882	4,422	707	1,389	3,233	7,060	(Z)	435	2,740
36	Electrical machinery.....	52	32	7,588	32,601	6,108	11,962	22,703	63,322	1,945	4,237	29,612
38	Instruments and related products.....	47	20	5,356	25,918	4,024	8,231	17,701	44,779	1,668	4,538	31,733
39	Miscellaneous manufacturing, including ordnance ³	775	241	28,715	121,918	23,512	45,813	81,636	214,952	5,562	30,512	175,386
391	Jewelry and silverware.....	341	119	12,664	60,449	9,874	20,373	38,349	104,829	3,328	11,896	76,946
396	Costume jewelry and notions..	330	97	12,533	48,570	10,683	19,936	33,810	84,161	1,545	15,446	81,044
--	Administrative and auxiliary ⁴ ..	-	-	1,297	10,054	-	-	-	-	-	1,095	-

-Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas, or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS





1963 CENSUS OF MANUFACTURES



MC63(P)-S41

Area series

SOUTH CAROLINA

preliminary report

Value added by manufacturing in 1963 in the State of South Carolina amounted to \$2,117 million, an increase of 7 percent from 1962 and 56 percent from 1958. Of this total, \$937 million was contributed by the textile mill products industries and \$334 million by the chemical and allied products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	3,028	1,078	261,359	1,037,493	220,760	453,387	786,557	2,117,387	164,750	116	156
1962 ³	(NA)	(NA)	253,043	973,781	215,237	442,624	743,525	1,976,809	165,131	112	145
1961 ³	(NA)	(NA)	240,772	890,618	204,892	417,946	677,235	1,744,862	159,034	107	128
1960 ³	(NA)	(NA)	240,961	858,299	206,228	420,317	662,035	1,719,328	144,331	107	126
1959 ³	(NA)	(NA)	236,548	815,419	203,665	417,667	634,053	1,600,423	95,793	105	118
1958.....	2,888	939	225,510	732,149	193,936	381,540	565,014	1,360,135	75,617	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

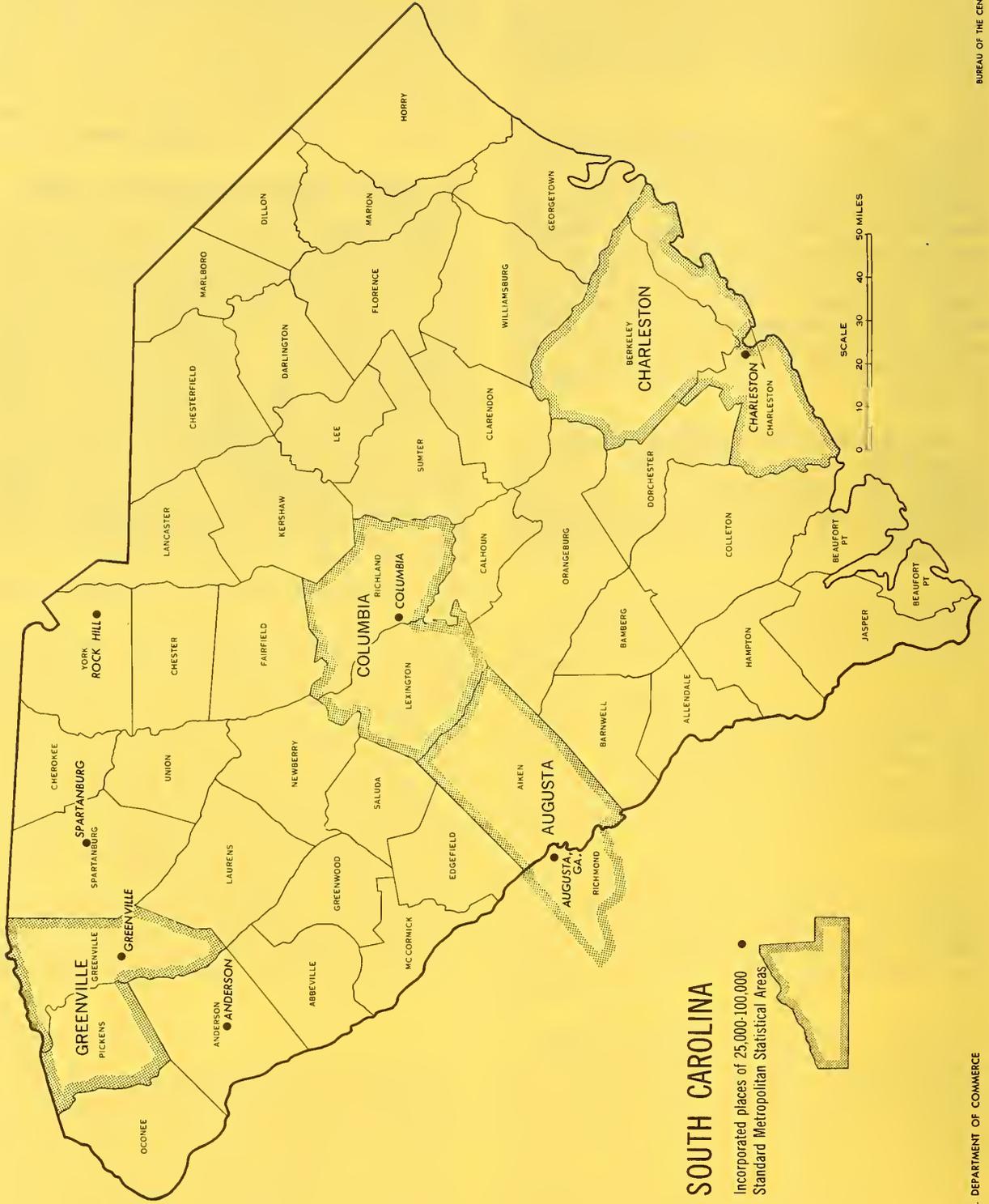
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



SOUTH CAROLINA

Incorporated places of 25,000-100,000 Standard Metropolitan Statistical Areas

Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture, new ³	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
SOUTH CAROLINA, TOTAL.....	3,028	1,078	261,359	1,037,493	220,760	453,387	786,557	2,117,387	164,750	225,510	1,360,135
STANDARD METROPOLITAN STATISTICAL AREAS											
Augusta ⁴	185	87	25,291	135,909	18,057	37,773	79,215	321,063	11,548	23,130	209,958
Portion in South Carolina.....	66	26	14,869	90,448	10,143	21,059	49,649	219,124	4,764	14,840	161,247
Portion in Georgia.....	119	61	10,422	45,461	7,914	16,714	29,566	101,939	6,785	8,263	48,711
Charleston ⁵	199	72	11,070	48,232	8,899	17,832	34,553	106,003	9,569	10,554	78,118
Columbia ⁶	294	104	14,512	56,725	11,532	23,256	39,356	113,070	11,931	11,183	64,175
Greenville ⁷	401	164	45,624	177,123	38,275	78,169	132,019	341,939	21,364	36,777	206,424
COUNTIES ¹											
Abbeville.....	17	7	2,951	11,523	2,606	5,459	9,288	24,104	3,550	2,431	13,245
Aiken.....	66	26	14,869	90,448	10,143	21,059	49,649	219,124	4,764	14,840	161,247
Allendale.....	16	4	521	1,514	484	1,005	1,304	2,144	(2)	465	2,210
Anderson.....	111	61	18,128	66,434	16,197	33,384	55,439	104,510	7,944	17,220	88,962
Bamberg.....	18	6	583	1,594	525	978	1,352	2,211	(2)	703	2,531
Beaufort.....	17	6	375	1,093	306	513	722	1,351	(2)	278	1,402
Berkeley.....	38	10	1,166	3,666	1,063	2,056	3,152	7,615	1,063	1,200	5,525
Charleston.....	161	62	9,904	44,566	7,836	15,776	31,401	98,388	8,506	9,354	72,593
Cherokee.....	46	19	4,795	16,708	4,478	9,397	14,723	35,903	1,454	3,875	17,407
Chester.....	60	18	4,856	18,742	4,449	9,556	16,887	38,878	7,035	4,758	26,474
Chesterfield.....	69	23	2,805	8,947	2,501	5,322	7,459	14,437	827	1,820	6,629
Clarendon.....	34	9	910	2,489	843	1,657	2,218	3,630	(2)	882	3,356
Colleton.....	53	15	1,418	4,309	1,295	2,400	3,736	7,399	511	1,005	3,712
Darlington.....	49	21	6,083	28,450	5,054	10,157	20,871	53,910	3,840	4,797	33,603
Dillon.....	40	14	2,385	7,451	2,057	4,045	6,205	23,675	1,228	1,295	15,108
Dorchester.....	52	11	1,207	4,300	1,019	2,041	3,314	12,615	695	1,586	10,312
Edgefield.....	50	11	1,583	5,410	1,365	2,764	4,067	11,058	1,233	1,468	7,277
Fairfield.....	86	8	2,036	6,464	1,761	3,354	5,087	9,531	624	2,063	9,438
Florence.....	101	39	5,345	18,624	4,325	8,607	13,159	43,174	18,666	3,625	16,986
Georgetown.....	76	13	3,225	16,127	2,804	5,448	13,095	48,756	658	2,857	35,162
Greenville.....	328	132	35,887	139,739	30,051	60,918	104,480	275,240	15,937	30,007	174,902
Greenwood.....	82	36	11,424	44,376	10,251	21,541	37,738	108,953	12,552	9,628	43,302
Hampton.....	39	11	1,733	7,423	1,375	2,786	4,862	15,401	787	1,131	8,261
Horry.....	68	17	2,174	6,587	1,852	3,558	5,179	10,156	983	1,603	5,384
Jasper.....	25	3	487	1,071	453	737	942	1,847	(2)	360	1,118
Kershaw.....	46	12	3,382	16,964	2,567	5,369	10,757	84,424	3,192	3,313	65,082
Laurens.....	52	21	7,213	27,983	6,550	13,559	23,203	49,038	6,107	7,398	32,986
Lee.....	10	4	500	1,698	437	924	1,361	2,937	(2)	404	1,645
Lexington.....	119	40	5,663	22,031	4,688	9,191	15,364	48,821	4,935	2,925	16,056
Marion.....	32	15	2,032	5,879	1,783	3,334	4,464	9,983	590	1,608	6,906
Marlboro.....	31	18	3,881	15,452	3,104	6,665	11,020	25,532	4,186	2,211	13,787
Newberry.....	74	16	3,632	11,242	3,305	6,609	9,917	19,920	1,013	3,718	15,526
Oconee.....	65	24	8,573	30,411	7,377	15,335	24,556	63,725	4,019	6,168	32,615
Orangeburg.....	90	39	5,281	20,015	4,326	9,353	14,445	46,319	2,367	3,689	16,336
Pickens.....	73	32	9,737	37,384	8,224	17,251	27,539	66,699	5,427	6,770	31,522
Richland.....	175	64	8,849	34,694	6,844	14,065	23,992	64,249	6,996	8,258	48,119
Saluda.....	29	11	1,297	3,477	1,102	2,006	2,874	5,850	(2)	772	2,250
Spartanburg.....	201	92	27,694	106,734	24,337	50,242	86,547	180,085	13,552	25,319	119,968
Sumter.....	78	27	4,209	15,272	3,476	7,289	10,640	27,771	1,463	3,552	16,685
Union.....	27	12	5,688	22,560	5,000	10,871	17,961	41,817	2,719	5,510	22,362
Williamsburg.....	33	7	1,175	3,744	1,014	1,905	2,927	15,463	533	575	2,611
York.....	90	37	13,812	59,099	11,795	23,877	46,516	114,088	4,502	13,286	85,848

(2) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Augusta Standard Metropolitan Statistical Area consists of Richmond County, Ga., and Aiken County, S.C.⁵The Charleston Standard Metropolitan Statistical Area consists of Berkeley and Charleston Counties, S.C.⁶The Columbia Standard Metropolitan Statistical Area consists of Lexington and Richland Counties, S.C.⁷The Greenville Standard Metropolitan Statistical Area consists of Greenville and Pickens County, S.C.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, ¹ (\$1,000)	All employ- ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	3,028	1,078	261,359	1,037,493	220,760	453,387	786,557	2,117,387	164,750	225,510	1,360,135
20	Food and kindred products.....	366	137	11,093	41,602	6,401	13,502	19,474	97,665	7,409	10,346	73,349
201	Meat products.....	63	22	2,259	8,428	1,750	3,784	5,470	18,728	3,099	1,961	10,643
202	Dairies.....	40	20	1,750	7,400	762	1,571	2,874	17,931	796	1,958	16,054
204	Grain mill products.....	49	11	825	3,145	527	1,095	1,515	7,410	602	699	5,603
205	Bakery products.....	24	13	1,864	7,967	897	1,941	3,368	17,536	676	1,742	13,271
208	Beverages.....	80	40	2,387	8,768	854	1,834	2,331	19,659	1,260	2,185	16,507
209	Miscellaneous foods and kindred products.....	72	14	877	3,213	637	1,469	2,010	9,436	756	827	6,660
21	Tobacco manufactures.....	5	5	1,442	4,328	1,320	2,124	3,458	8,896	(Z)	1,343	8,388
22	Textile mill products.....	306	269	130,147	503,254	118,674	243,788	433,384	937,265	73,997	128,136	665,147
221	Weaving mills, cotton.....	116	110	67,334	250,979	63,260	132,297	227,520	436,562	36,785	76,450	354,407
222	Weaving mills, synthetics.....	43	43	23,087	95,189	21,065	46,136	80,099	170,595	10,395	17,962	103,886
223	Weaving, finishing mills, wool.....	10	10	3,337	13,451	2,715	5,644	9,635	41,956	3,380	2,984	16,715
224	Narrow fabric mills.....	17	12	1,159	4,505	1,069	2,261	3,803	11,295	(Z)	696	4,631
225	Knitting mills.....	30	20	3,170	11,190	2,830	5,596	8,947	19,529	909	2,646	9,648
226	Textile finishing, except wool.....	26	24	19,725	83,488	16,687	35,051	66,327	160,573	16,103	18,447	113,290
227	Floor covering mills.....	14	8	2,522	10,334	2,143	4,596	8,001	38,420	1,594	1,442	20,331
228	Yarn and thread mills.....	31	27	6,484	22,224	5,998	12,199	19,434	35,023	2,614	4,676	23,649
229	Miscellaneous textile goods.....	19	15	3,329	11,894	2,907	6,008	9,618	23,312	1,821	2,833	18,590
23	Apparel and related products... Men's and boys' furnishings... Women's and misses' outerwear Children's outerwear.....	215 49 71 24	169 44 65 21	34,223 10,064 12,940 6,318	95,076 27,059 35,570 17,949	30,843 9,352 11,552 5,563	58,706 17,620 22,001 10,519	80,877 23,913 30,456 14,600	165,400 43,742 49,996 22,915	4,260 706 1,882 (Z)	24,456 7,984 8,316 4,778	85,198 26,832 24,747 18,166
238	Miscellaneous apparel.....	14	10	878	2,430	839	1,660	2,176	3,999	(Z)	817	3,537
239	Fabricated textiles, n.e.c....	43	18	1,865	5,726	1,624	3,221	4,663	13,905	(Z)	1,421	7,082
24	Lumber and wood products.....	1,120	176	15,098	40,642	13,417	26,333	34,855	74,125	8,346	16,563	51,886
241	Logging camps and contractors	621	18	2,985	5,870	2,629	4,949	5,243	10,220	2,088	3,302	8,216
242	Sawmills and planing mills...	378	102	6,293	16,383	5,527	10,662	14,194	28,870	3,852	8,340	23,923
243	Millwork and related products	79	38	3,965	12,337	3,615	7,398	10,309	22,491	1,056	3,280	13,386
244	Wooden containers.....	14	11	885	2,428	816	1,646	2,148	4,931	(Z)	852	3,135
249	Miscellaneous wood products..	28	7	970	3,624	830	1,678	2,961	7,613	1,208	789	3,226
25	Furniture and fixtures.....	67	21	3,231	11,981	2,822	5,776	8,700	20,759	931	3,326	13,926
251	Household furniture.....	52	18	2,969	10,964	2,594	5,336	7,880	18,698	891	3,116	12,992
26	Paper and allied products.....	36	25	8,809	53,185	7,236	15,117	40,153	142,951	25,873	7,081	83,444
263	Paperboard mills.....	5	3	3,587	25,149	2,925	6,226	18,856	76,589	19,579	3,657	55,190
265	Paperboard containers and boxes.....	16	13	3,267	17,076	2,772	5,495	13,254	34,219	4,330	2,702	21,595
27	Printing and publishing.....	228	38	3,624	16,615	2,183	4,234	9,136	33,430	1,930	3,135	22,210
271	Newspapers.....	77	17	2,193	10,131	1,089	1,996	4,514	22,262	647	2,014	15,651
275	Commercial printing.....	115	17	1,058	4,719	848	1,717	3,486	7,772	1,162	813	4,912
28	Chemicals and allied products... Agricultural chemicals.....	105 43	39 17	16,217 1,310	104,454 4,622	10,046 991	20,145 2,076	51,763 3,016	334,247 12,634	17,402 1,414	13,825 1,080	230,106 6,204
30	Rubber and plastics products, n.e.c.....	19	10	2,130	11,141	1,550	3,234	6,785	34,494	1,705	953	8,506
32	Stone, clay and glass products..	155	52	6,856	31,245	5,727	12,102	23,839	68,437	8,516	5,306	44,748
325	Structural clay products.....	16	14	1,296	4,842	1,132	2,278	3,754	6,859	1,240	1,022	4,225
327	Concrete and plaster products	118	29	1,744	6,346	1,333	2,845	4,087	15,740	2,100	1,377	11,114
33	Primary metal industries.....	15	7	1,096	4,951	1,029	2,016	4,376	11,175	1,160	704	7,463
34	Fabricated metal products.....	114	35	4,104	18,498	3,095	6,671	12,236	33,493	2,677	1,992	16,227
344	Structural metal products....	84	22	2,097	9,902	1,574	3,566	6,596	15,668	1,502	1,612	14,229
35	Machinery, except electrical... Special industry machinery... Miscellaneous machinery.....	144 52 43	48 26 4	8,586 4,889 919	38,647 22,369 4,542	6,742 3,850 737	14,407 8,088 1,687	26,194 15,049 5,870	74,142 38,796 5,870	4,716 1,552 (Z)	3,770 2,817 490	23,918 17,769 3,110
36	Electrical machinery.....	20	13	5,749	20,910	4,531	8,553	13,687	33,715	2,806	1,715	12,337
37	Transportation equipment.....	31	10	932	4,090	798	1,682	3,214	7,472	(Z)	621	3,265
39	Miscellaneous manufacturing...	55	18	3,006	11,468	2,583	5,177	8,112	27,247	953	820	4,837
394	Toys and sporting goods.....	11	6	1,426	5,408	1,209	2,385	3,685	11,121	(Z)	368	2,158
--	Administrative and auxiliary ³ ..	-	-	2,969	17,206	-	-	-	-	-	961	-

-Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
GREENVILLE SMSA (Consists of Greenville and Pickens Counties, S.C.)												
	All industries, total ²	401	164	45,624	177,123	38,275	78,169	132,019	341,939	21,364	36,777	206,424
20	Food and kindred products.....	47	21	1,872	7,253	1,083	2,254	3,403	18,764	562	1,784	13,012
22	Textile mill products.....	56	52	23,273	90,488	21,119	44,300	76,156	157,151	12,793	21,875	121,435
221	Weaving mills, cotton.....	22	21	9,446	33,522	8,806	17,887	29,662	51,904	7,171	9,763	44,830
222	Weaving mills, synthetics....	11	11	7,424	31,130	6,744	14,957	26,249	56,312	2,771	6,676	46,974
23	Apparel and related products...	43	34	8,695	26,432	7,521	14,084	20,951	64,521	618	(D)	(D)
232	Men's and boys' furnishings..	14	13	2,463	7,027	2,204	3,835	5,829	15,140	(Z)	(D)	(D)
26	Paper and allied products.....	10	5	937	4,311	769	1,743	3,299	11,766	1,783	693	5,155
27	Printing and publishing.....	29	5	708	3,390	409	817	1,904	7,449	(Z)	637	4,404
35	Machinery, except electrical...	49	15	5,057	23,669	3,675	7,712	14,456	40,655	1,367	(D)	(D)
355	Special industrial machinery.	27	12	3,292	15,531	2,412	5,025	9,363	27,633	989	(D)	(D)
--	Administrative and auxiliary ³ ..	-	-	311	2,198	-	-	-	-	-	218	-

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
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1963 CENSUS OF MANUFACTURES

MC63(P)-S42



preliminary
report

Area series

SOUTH
DAKOTA

Value added by manufacturing in 1963 in the State of South Dakota amounted to \$142 million, an increase of 3 percent from 1962 and 24 percent from 1958. Of this total, \$96 million was contributed by the food and kindred products industries and \$12 million by the printing and publishing industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	582	116	13,403	70,670	9,803	20,180	48,305	142,230	7,351	104	124
1962.....	(NA)	(NA)	14,378	68,119	10,790	20,302	47,036	137,500	(15,817)	111	120
1961 ³	(NA)	(NA)	13,793	67,181	10,095	20,963	46,262	124,139	(10,233)	107	109
1960 ³	(NA)	(NA)	13,440	63,533	9,968	20,605	43,890	121,667	(6,702)	104	106
1959 ³	(NA)	(NA)	13,331	62,557	10,029	20,082	44,228	132,285	(8,881)	103	116
1958.....	575	109	12,901	54,786	9,631	18,608	37,452	114,256	5,211	100	100

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. ¹Revised. (X) Not applicable.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for plants under construction but not in operation.

The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

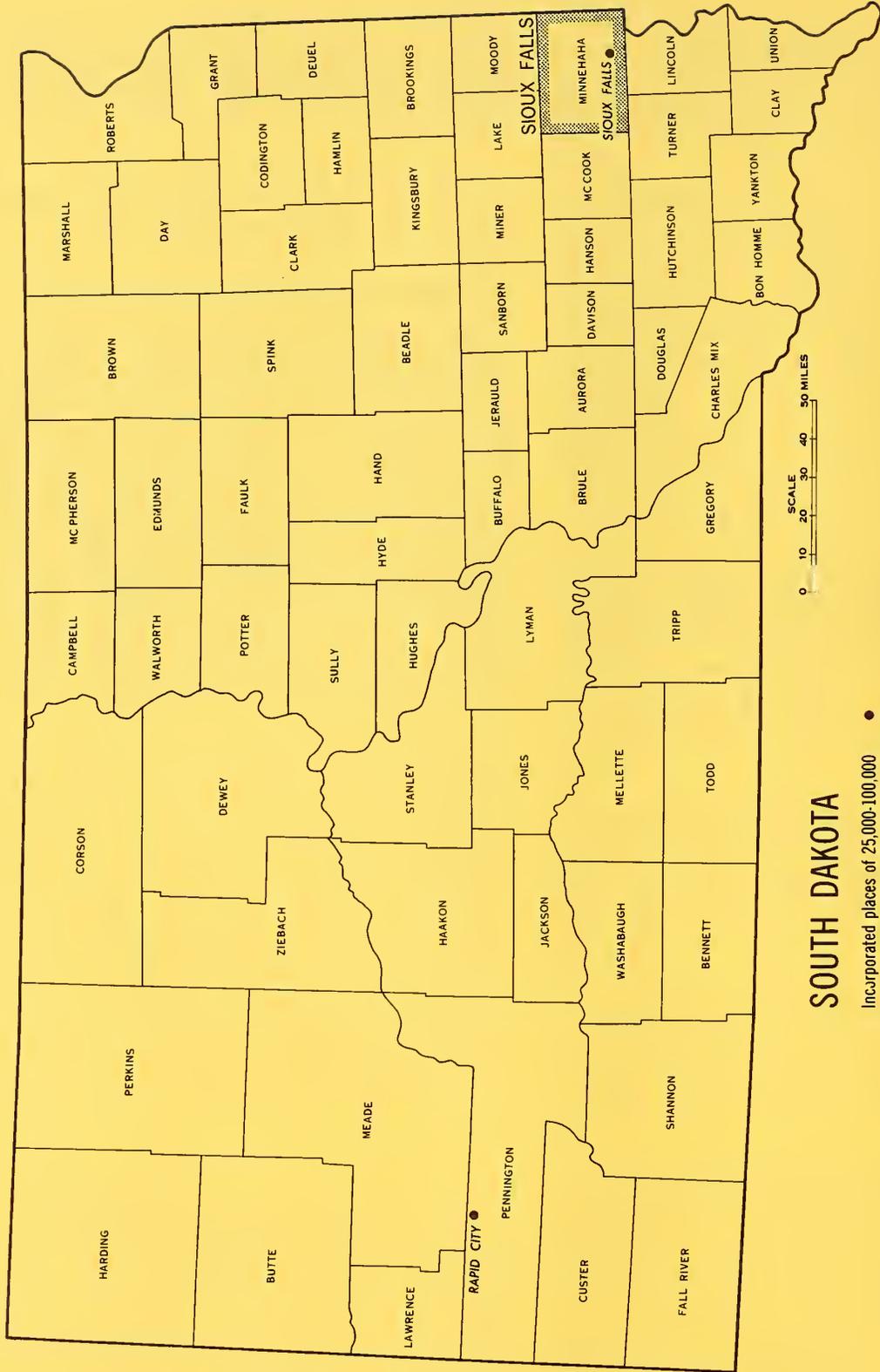
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



SOUTH DAKOTA

Incorporated places of 25,000-100,000 Standard Metropolitan Statistical Areas

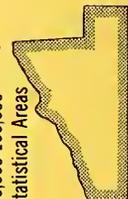


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
SOUTH DAKOTA, TOTAL.....	582	116	13,403	70,670	9,803	20,180	48,305	142,230	7,351	12,901	114,256
STANDARD METROPOLITAN STATISTICAL AREAS											
Sioux Falls ⁴	85	36	6,098	36,956	4,415	8,935	25,365	76,790	2,368	6,085	63,188
COUNTIES ¹											
Brown.....	34	10	771	3,896	532	1,113	2,436	7,125	568	659	5,204
Codington.....	23	8	719	3,556	555	1,086	2,468	6,314	(Z)	688	4,423
Custer.....	21	2	263	827	237	428	695	1,257	(Z)	360	1,320
DeWitt.....	22	7	453	2,238	299	569	1,380	5,121	852	537	3,525
Grant.....	9	4	294	1,386	222	506	914	2,169	(Z)	277	1,226
Lake.....	11	4	360	1,417	327	580	1,229	2,078	(Z)	334	2,049
Lawrence.....	21	4	410	1,572	355	779	1,348	2,862	(Z)	369	2,776
Minnehaha.....	85	36	6,098	36,956	4,415	8,935	25,365	76,790	2,368	6,085	63,188
Pennington.....	64	14	1,170	5,992	694	1,496	3,258	12,491	695	1,226	8,477
Yankton.....	20	4	330	1,361	235	495	771	2,610	(Z)	218	1,055

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Sioux Falls Standard Metropolitan Statistical Area is coextensive with Minnehaha County, S. Dak.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ²	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	582	116	13,403	70,670	9,803	20,180	48,305	142,230	7,351	12,901	114,256
20	Food and kindred products.....	165	56	7,938	45,576	5,760	11,935	31,848	96,459	4,371	8,206	81,528
201	Meat products.....	27	13	4,937	30,784	3,995	7,887	24,086	62,312	2,327	4,903	53,427
202	Dairies.....	69	20	1,426	6,371	783	1,887	3,230	18,865	804	1,329	12,801
24	Lumber and wood products.....	52	8	700	2,799	600	1,295	2,275	4,535	586	1,040	4,816
242	Sawmills and planing mills....	20	3	377	1,586	343	778	1,387	2,436	(Z)	756	3,250
27	Printing and publishing.....	169	17	1,598	7,076	1,037	1,970	4,449	12,474	727	1,535	9,841
271	Newspapers.....	121	12	1,178	5,047	772	1,463	3,294	9,245	517	1,072	7,056
275	Commercial printing.....	37	2	269	1,376	194	390	909	2,348	(Z)	229	1,259
32	Stone, clay and glass products..	70	12	862	3,956	694	1,423	2,736	7,714	884	590	4,672
34	Fabricated metal products.....	26	5	535	2,530	374	849	1,562	4,371	(Z)	473	4,250
344	Structural metal products.....	18	4	458	2,274	310	722	1,375	3,777	(Z)	370	3,630
-	Administrative and auxiliary ³ ...	-	-	88	684	-	-	-	-	-	-	-

(Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES

MC63(P)-S43



preliminary
report

Area series

TENNESSEE

Value added by manufacturing in 1963 in the State of Tennessee amounted to \$3,344 million, an increase of 11 percent from 1962 and 52 percent from 1958. Of this total, \$822 million was contributed by chemical and allied products and \$363 million by food and kindred products, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

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(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	4,718	1,785	340,670	1,540,172	263,972	532,399	1,043,861	3,343,790	269,992	120	152
1962.....	(NA)	(NA)	318,039	1,412,065	250,023	500,522	954,307	3,016,598	194,274	112	137
1961 ³	(NA)	(NA)	304,160	1,299,437	236,127	467,794	870,944	2,753,075	192,834	107	125
1960.....	(NA)	(NA)	303,190	1,274,528	242,954	473,957	858,799	2,586,236	216,806	109	117
1959.....	(NA)	(NA)	303,929	1,220,079	240,534	470,930	828,315	2,513,107	165,307	107	114
1958.....	4,450	1,516	282,856	1,105,837	220,823	426,647	739,504	2,207,073	151,797	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

April 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



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CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

TENNESSEE

● Incorporated places of 100,000 and over
 ○ Incorporated places of 25,000-100,000
 Standard Metropolitan Statistical Areas

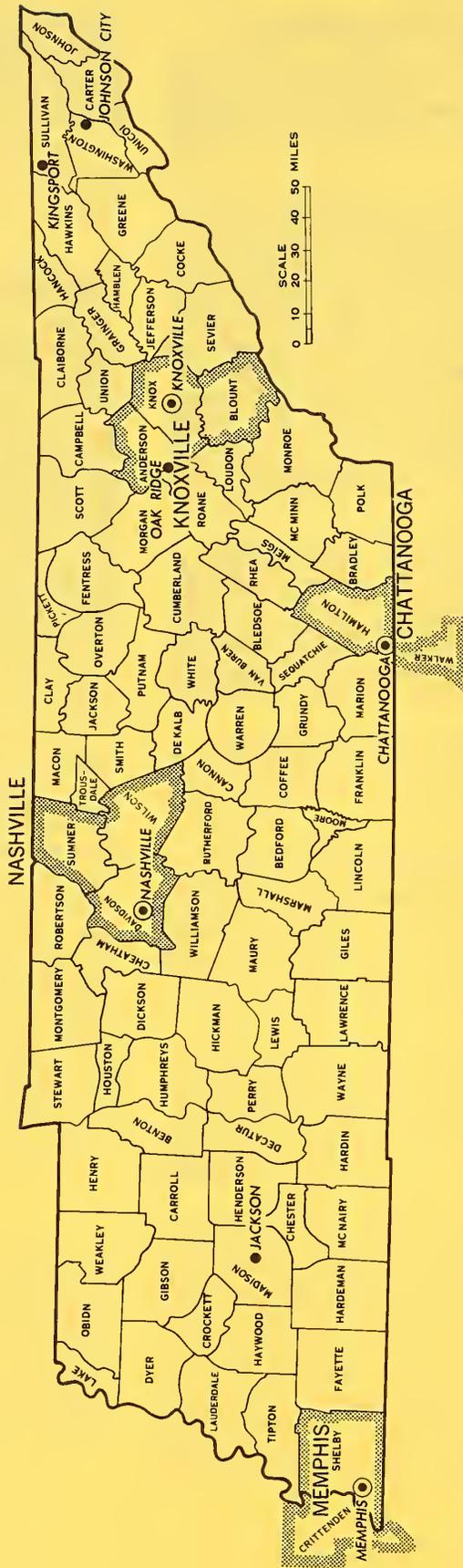


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
TENNESSEE, TOTAL.....	4,718	1,785	340,670	1,540,172	268,972	532,399	1,043,861	3,343,790	269,992	282,856	2,207,073
STANDARD METROPOLITAN STATISTICAL AREAS											
Chattanooga ⁴	445	203	39,053	193,408	30,726	61,899	136,229	404,642	21,719	40,945	337,482
Portion in Georgia.....	48	19	3,963	15,349	3,509	7,543	12,593	30,818	1,817	5,493	27,479
Portion in Tennessee.....	397	184	35,090	178,059	27,217	54,356	123,636	373,824	19,902	35,452	310,003
Knoxville ⁵	395	145	36,164	179,595	28,821	57,004	127,382	437,322	37,134	31,133	284,162
Memphis ⁶	789	339	47,434	239,897	34,284	69,750	153,422	568,804	28,089	41,850	396,948
Portion in Tennessee.....	758	325	46,496	236,811	33,480	67,994	150,981	561,645	27,833	41,228	393,652
Portion in Arkansas.....	31	14	938	3,086	804	1,756	2,441	7,159	(Z)	622	3,296
Nashville ⁷	662	281	45,885	222,617	34,203	68,258	141,291	479,977	53,093	39,875	304,768
COUNTIES ¹											
Bedford.....	58	28	3,393	10,723	3,032	5,955	8,648	20,704	1,091	2,750	12,618
Bledsoe.....	17	2	419	999	410	793	966	1,331	(Z)	374	878
Bradley.....	89	35	7,312	27,969	5,993	12,620	20,136	55,686	6,059	5,248	33,826
Campbell.....	32	8	1,350	3,559	1,215	2,065	2,879	13,815	(Z)	1,431	3,893
Carroll.....	33	11	3,410	9,513	3,223	6,308	8,663	17,613	690	2,281	7,710
Cocke.....	28	14	2,187	7,894	1,850	3,816	5,889	18,568	800	1,438	8,317
Coffee.....	47	22	2,975	10,355	2,633	4,974	8,275	20,095	867	1,984	10,561
Cumberland.....	48	13	1,118	3,630	968	1,871	2,818	6,280	523	381	1,596
Davidson.....	580	243	38,477	197,616	27,585	55,370	121,153	423,456	48,301	36,111	283,073
Dickson.....	31	7	1,391	3,761	1,296	2,434	3,362	7,797	(Z)	1,086	3,982
Dyer.....	29	10	2,029	8,106	1,661	3,548	5,587	15,242	2,658	1,576	9,666
Fayette.....	11	3	734	2,202	672	1,219	1,856	3,596	(Z)	92	344
Fentress.....	24	2	266	545	245	435	482	680	(Z)	1,064	2,360
Franklin.....	34	8	1,631	5,440	1,484	2,861	4,804	12,277	(Z)	1,082	6,999
Gibson.....	56	27	6,291	23,528	5,090	9,459	16,410	46,138	2,396	2,518	14,560
Giles.....	27	10	1,787	5,639	1,601	3,150	4,881	11,256	524	1,160	7,619
Greene.....	59	22	3,969	17,254	3,111	6,376	11,422	75,848	4,172	2,905	36,143
Grundy.....	25	2	838	2,064	792	1,616	1,898	2,699	(Z)	113	385
Hamblen.....	59	32	7,413	28,412	6,202	13,121	21,678	64,925	16,209	5,150	36,744
Hamilton.....	397	184	35,090	178,059	27,217	54,356	123,636	373,824	19,902	35,452	310,003
Hardeman.....	33	7	1,198	3,675	1,077	1,866	3,119	7,897	901	527	2,330
Hardin.....	28	7	1,860	6,399	1,509	2,725	4,718	16,392	1,043	1,359	4,919
Hawkins.....	12	2	854	4,560	720	1,485	3,683	9,448	1,655	886	5,277
Haywood.....	17	4	621	1,737	565	1,062	1,482	3,943	(Z)	457	1,403
Henderson.....	23	8	1,858	5,116	1,752	3,110	4,569	12,513	(Z)	680	2,219
Henry.....	38	9	1,492	4,842	1,343	2,475	3,964	8,204	1,306	1,233	7,663
Hickman.....	17	5	879	3,023	791	1,618	2,641	5,082	(Z)	769	4,623
Houston.....	19	6	558	1,675	479	1,037	1,395	3,127	(Z)	286	954
Jackson.....	5	3	390	791	355	552	714	1,157	(Z)	332	917
Jefferson.....	21	8	2,822	10,302	2,480	5,060	8,245	15,479	998	1,647	9,713
Johnson.....	19	3	378	885	347	662	841	1,705	(Z)	48	177
Knox.....	320	126	23,112	92,818	18,779	36,894	65,285	209,149	8,025	18,981	129,916
Lake.....	12	4	350	1,012	303	595	824	1,917	(Z)	192	920
Lauderdale.....	15	5	614	1,729	587	1,136	1,544	4,647	(Z)	373	1,662
Lawrence.....	33	8	3,347	14,432	3,014	5,867	10,549	26,894	2,485	2,428	15,036
Lewis.....	15	4	1,040	3,110	968	1,915	2,765	6,751	(Z)	692	3,032
Lincoln.....	24	10	1,835	5,507	1,566	3,045	4,271	9,044	(Z)	1,225	6,599
Loudon.....	27	12	2,889	10,213	2,532	4,927	8,149	25,174	1,044	2,686	17,598
Melmin.....	89	-31	4,727	19,768	3,969	7,606	14,590	45,698	11,133	4,606	44,719
Macon.....	22	5	1,149	3,183	1,051	2,008	2,723	8,961	(Z)	950	4,742
Madison.....	88	35	3,941	16,661	3,050	6,190	11,206	27,841	1,726	3,490	21,334
Marion.....	30	11	1,043	3,903	897	1,804	3,102	10,019	616	757	5,042
Marshall.....	29	14	2,301	9,776	1,860	3,810	6,638	20,133	802	2,302	19,013
Maury.....	48	25	3,878	20,978	3,233	6,673	15,879	70,527	3,568	3,555	55,067
Monroe.....	55	13	1,649	4,935	1,469	2,728	4,020	8,277	(Z)	1,314	6,015
Montgomery.....	53	25	3,453	15,773	2,652	5,619	10,518	28,759	2,057	2,576	15,900
Morgan.....	23	4	267	517	235	444	457	949	(Z)	261	1,001
Obion.....	32	17	3,110	10,424	2,935	5,679	9,458	33,881	504	1,992	12,584
Overton.....	22	5	1,508	3,521	1,455	2,807	3,202	5,350	(Z)	1,234	3,069
Perry.....	13	1	394	851	375	617	811	1,221	(Z)	215	491
Putnam.....	71	28	4,303	14,019	3,675	7,237	10,359	26,016	1,520	2,199	9,560
Rhea.....	28	12	1,797	5,220	1,640	2,992	4,259	10,136	(Z)	1,191	7,342
Roane.....	33	11	10,869	74,897	4,466	8,685	19,727	79,650	(D)	12,831	98,270
Robertson.....	29	9	1,289	4,785	1,096	2,227	3,691	11,045	(Z)	1,228	7,579
Rutherford.....	49	24	2,440	10,024	1,881	3,864	7,096	32,129	1,236	1,604	13,301

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Scott.....	30	7	893	2,311	855	1,543	2,067	3,918	647	641	2,329
Sevier.....	33	5	789	3,071	676	1,477	2,361	4,437	(Z)	744	4,178
Shelby.....	758	325	46,496	236,811	33,480	67,994	150,981	561,645	27,833	41,228	393,652
Smith.....	12	4	782	1,794	743	1,365	1,617	2,345	(Z)	558	1,813
Sullivan.....	108	43	20,417	129,104	14,670	29,201	80,008	245,723	24,401	18,331	179,945
Sumner.....	44	18	4,293	13,145	3,958	7,424	11,318	33,483	2,063	2,391	14,905
Tipton.....	18	9	483	1,750	347	674	1,076	3,327	(Z)	646	3,493
Trousdale.....	8	4	660	1,848	592	1,077	1,575	3,388	(Z)	199	644
Unicoi.....	22	5	914	3,574	792	1,573	2,697	5,738	610	482	1,804
Warren.....	46	16	3,350	10,190	2,984	5,775	8,448	24,179	949	2,126	8,458
Washington.....	87	28	4,125	15,904	3,250	6,502	10,610	26,859	2,761	3,457	18,624
Wayne.....	28	5	1,133	3,504	968	1,770	2,841	6,516	(Z)	680	3,802
Weakley.....	43	11	2,061	6,187	1,852	3,411	5,067	11,410	(Z)	1,573	6,532
White.....	30	9	1,930	5,019	1,795	3,634	4,320	12,450	(Z)	1,710	5,112
Williamson.....	20	5	957	3,625	788	1,579	2,371	5,869	(Z)	365	1,762
Wilson.....	38	20	3,115	11,856	2,660	5,464	8,820	23,038	2,729	1,373	6,790

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Chattanooga Standard Metropolitan Statistical Area consists of Hamilton County, Tenn.; and Walker County, Ga.⁵The Knoxville Standard Metropolitan Statistical Area consists of Anderson, Blount, and Knox Counties, Tenn.⁶The Memphis Standard Metropolitan Statistical Area consists of Shelby County, Tenn.; and Crittenden County, Ark.⁷The Nashville Standard Metropolitan Statistical Area consists of Davidson, Sumner, and Wilson Counties, Tenn.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	4,718	1,785	340,670	1,540,172	268,972	532,399	1,043,861	3,343,790	269,992	282,856	2,207,073
20	Food and kindred products.....	687	322	32,890	143,667	20,142	42,764	78,543	362,969	20,524	29,959	262,904
201	Meat products.....	103	47	6,330	30,243	4,956	10,609	21,413	46,912	2,871	5,284	40,155
202	Dairies.....	118	70	4,877	23,581	2,400	5,178	10,126	61,130	3,973	5,615	50,530
203	Canned and frozen Foods.....	29	16	2,325	6,549	2,008	3,801	4,968	14,213	502	2,167	14,220
204	Grain mill products.....	102	37	3,614	17,076	2,561	5,509	10,764	83,451	4,575	3,151	38,090
207	Candy and related products.....	19	5	976	3,905	781	1,534	2,600	8,657	(Z)	968	6,143
208	Beverages.....	106	54	3,679	15,900	1,320	2,875	4,311	51,599	2,648	3,069	24,396
209	Miscellaneous Foods and Kindred products.....	123	43	4,256	20,264	2,760	6,079	11,451	49,040	2,967	3,913	45,608
21	Tobacco manufactures.....	16	12	991	3,678	847	1,536	2,646	15,680	(Z)	1,153	17,704
22	Textile mill products.....	151	123	30,326	107,877	27,569	54,394	88,230	183,342	12,890	29,801	156,092
225	Knitting mills.....	86	74	18,433	59,658	16,910	31,651	49,080	98,625	6,812	17,306	81,120
226	Textile finishing, except wool.....	10	8	2,129	8,794	1,801	3,768	6,589	15,314	1,380	1,777	12,509
227	Floor covering mills.....	12	9	900	3,755	777	1,647	2,594	9,429	539	837	6,826
229	Miscellaneous textile goods...	18	12	1,325	5,362	1,212	2,495	4,506	9,915	(Z)	1,453	9,692
23	Apparel and related products...	255	194	53,324	142,958	49,576	92,553	124,684	276,087	4,446	38,127	136,737
231	Men's and boys' suits and coats.....	15	14	5,987	17,492	5,691	11,097	14,647	37,299	(Z)	2,873	12,887
232	Men's and boys' furnishings...	111	107	32,815	85,359	31,034	58,096	77,017	171,056	3,159	28,145	93,524
233	Women's and misses' outerwear...	37	29	7,172	18,984	6,341	11,786	16,262	31,788	(Z)	2,795	11,453
238	Miscellaneous apparel.....	11	11	1,733	4,662	1,631	3,093	4,156	6,848	(Z)	890	2,980
239	Fabricated textiles, n.e.c.....	63	19	2,482	7,717	2,067	3,823	5,605	13,266	(Z)	2,120	10,156
24	Lumber and wood products.....	1,071	168	16,965	49,070	14,982	29,032	40,120	88,897	5,914	17,514	65,347
241	Logging camps and contractors...	187	-	666	1,042	589	1,102	922	1,865	(Z)	475	1,276
242	Sawmills and planing mills....	732	110	10,893	29,824	9,602	18,843	24,913	55,586	4,459	11,426	39,939
243	Millwork and related products...	70	19	1,640	6,311	1,383	2,932	4,686	11,115	(Z)	2,057	9,804
244	Wooden containers.....	19	10	1,662	5,329	1,543	2,593	4,379	9,062	(Z)	1,645	7,198
249	Miscellaneous wood products...	63	29	2,104	6,564	1,865	3,562	5,220	11,269	512	1,911	7,130
25	Furniture and fixtures.....	237	107	18,120	63,006	15,556	32,090	49,455	108,371	5,391	12,061	60,627
251	Household furniture.....	176	89	16,855	51,519	14,496	29,918	45,276	97,155	4,882	11,314	36,244
253	Public building furniture.....	12	6	360	1,177	306	611	926	2,331	(Z)	270	1,165
254	Partitions and fixtures.....	32	10	657	2,851	531	1,114	2,083	6,409	(Z)	304	1,859

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
26	Paper and allied products.....	81	63	9,975	58,353	7,816	16,506	41,648	148,879	12,100	9,072	110,354
264	Paper and paperboard products.	25	15	2,602	13,319	2,198	4,496	10,076	42,425	993	2,455	27,651
265	Paperboard containers and boxes.....	42	35	2,593	12,207	2,096	4,379	8,534	21,950	1,699	2,461	16,626
27	Printing and publishing.....	506	102	13,663	72,057	9,060	17,953	46,191	127,147	6,961	12,245	98,023
271	Newspapers.....	114	27	4,549	24,139	2,411	4,483	12,292	45,385	2,383	4,230	36,921
272	Periodicals.....	39	8	807	3,118	271	461	1,037	5,198	(Z)	405	3,012
273	Books.....	14	7	1,950	10,430	1,404	2,998	7,250	19,722	(Z)	2,357	23,106
275	Commercial printing.....	262	44	5,122	27,511	4,049	8,203	20,808	46,010	2,164	4,087	26,591
279	Printing trades services.....	38	8	700	4,658	550	1,090	3,488	6,211	(Z)	491	3,888
28	Chemicals and allied products.....	204	95	39,971	270,120	26,590	53,512	152,955	821,998	118,412	38,128	535,125
281	Basic chemicals.....	54	30	16,299	120,323	10,294	20,914	65,848	399,229	65,568	15,588	264,933
282	Fibers, plastics, rubbers.....	13	10	16,594	113,962	12,108	23,496	68,663	300,863	49,745	16,599	202,183
283	Drugs.....	22	12	2,267	12,063	1,283	2,652	4,683	53,182	1,346	1,852	31,450
284	Cleaning and toilet goods.....	48	10	810	3,451	438	864	1,271	22,346	(Z)	697	9,969
285	Paints and allied products....	17	6	457	2,521	234	494	989	4,664	(Z)	452	3,863
289	Miscellaneous chemical products.....	23	9	1,955	10,961	1,445	2,749	7,196	20,895	763	1,218	11,096
30	Rubber and plastics products, n.e.c.....	57	38	7,752	45,510	6,525	13,204	36,275	82,442	4,862	5,032	66,562
306	Rubber products, n.e.c.....	17	16	1,956	9,073	1,594	3,266	6,217	16,782	2,515	929	7,966
31	Leather and leather products....	77	59	15,679	52,502	14,539	27,861	45,326	109,518	2,238	11,850	71,655
314	Footwear, except rubber.....	39	38	12,846	42,516	12,034	23,068	37,377	88,871	1,897	9,699	60,344
32	Stone, clay and glass products..	297	92	13,858	70,010	11,152	23,228	52,281	176,700	11,720	10,423	96,517
326	Pottery and related products..	10	6	1,606	8,013	1,321	2,767	5,823	12,312	863	1,509	8,718
327	Concrete and plaster products..	206	47	3,845	14,714	2,673	5,656	8,955	37,522	3,590	2,658	23,171
328	Cut stone and stone products..	24	7	870	2,869	738	1,473	2,255	3,733	(Z)	845	4,233
33	Primary metal industries.....	77	47	13,309	80,844	11,467	23,552	66,979	167,569	27,555	11,127	120,697
332	Iron and steel foundries.....	25	20	3,573	17,991	3,080	6,120	14,579	28,454	725	2,712	16,261
34	Fabricated metal products.....	307	121	16,823	82,581	13,172	25,825	56,938	144,453	6,791	15,611	110,601
344	Structural metal products.....	181	60	7,849	42,828	5,816	11,487	27,849	61,307	2,805	5,809	59,940
347	Metal services, n.e.c.....	33	11	451	1,542	389	727	1,231	2,980	(Z)	261	1,601
348	Fabricated wire products, n.e.c.....	17	10	833	3,234	650	1,378	2,100	6,407	(Z)	708	3,372
35	Machinery, except electrical....	271	67	10,096	55,394	7,624	15,389	37,430	111,483	6,426	8,013	65,987
353	Construction and like equipment.....	17	10	1,396	7,700	953	2,032	4,328	15,066	512	1,496	10,632
355	Special industry machinery....	29	9	1,100	5,181	865	1,746	3,864	10,993	(Z)	1,064	6,867
356	General industrial machinery..	28	8	1,234	6,471	891	1,873	3,880	11,050	968	555	2,896
358	Service industry machines.....	21	7	1,352	6,073	991	1,962	3,788	19,028	1,222	700	7,399
359	Miscellaneous machinery.....	116	14	1,427	6,542	1,215	2,354	5,216	11,324	1,193	1,425	12,202
36	Electrical machinery.....	104	58	17,752	81,002	14,074	28,080	55,661	230,145	10,317	10,708	123,949
363	Household appliances.....	27	21	6,303	25,486	5,342	10,844	18,764	59,388	2,922	5,966	60,394
369	Electrical products, n.e.c.....	16	9	663	3,101	501	1,007	2,085	10,323	(Z)	424	5,486
37	Transportation equipment.....	79	43	11,706	56,300	9,398	18,630	37,304	102,554	8,832	5,617	43,658
371	Motor vehicles and equipment..	43	25	4,705	20,943	3,860	8,109	14,941	47,919	5,123	2,804	23,585
39	Miscellaneous manufacturing, including ordnance ²	178	60	7,684	29,555	6,458	12,224	22,011	51,327	2,616	6,394	40,763
394	Toys and sporting goods.....	36	15	1,585	4,818	1,423	2,393	4,012	9,636	690	1,327	7,299
395	Pens, pencils and office supplies.....	24	9	1,387	5,603	1,129	2,314	3,423	9,808	(Z)	1,219	8,543
398	Miscellaneous manufactures ³ ...	108	32	3,933	16,271	3,207	6,238	12,293	27,199	1,582	3,299	22,020
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	8,091	61,489	-	-	-	-	-	6,970	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

1963 CENSUS OF MANUFACTURES

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CHATTANOOGA SMSA (Consists of Hamilton County, Tenn., and Walker County, Ga.)												
	All industries, total ²	445	203	39,053	193,408	30,726	61,899	136,229	404,642	21,719	40,945	337,482
20	Food and kindred products.....	54	31	3,770	16,941	2,233	4,542	8,705	40,416	3,215	3,545	39,652
201	Meat products.....	8	4	465	1,663	416	889	1,294	2,827	(Z)	421	3,487
202	Dairies.....	7	3	372	1,637	108	276	602	2,892	(Z)	473	3,702
205	Bakery products.....	11	8	964	4,017	537	997	1,819	6,694	505	778	6,285
208	Beverages.....	10	6	379	1,918	99	216	378	4,794	(Z)	324	2,702
209	Miscellaneous foods and kindred products.....	10	5	739	3,486	448	893	1,825	9,119	(Z)	764	13,790
22	Textile mill products.....	55	40	8,603	31,710	7,949	16,388	26,872	64,308	4,078	10,900	57,841
225	Knitting mills.....	22	18	3,280	10,452	3,007	5,599	8,336	16,051	(Z)	4,134	17,133
227	Floor covering mills.....	14	8	1,196	5,137	1,060	2,641	4,277	19,255	1,100	616	7,932
23	Apparel and related products.....	17	5	721	1,978	674	1,260	1,682	2,866	(Z)	1,093	3,465
24	Lumber and wood products.....	38	8	772	2,400	687	1,293	1,852	4,847	(Z)	1,016	4,594
249	Miscellaneous wood products.....	6	4	292	924	263	467	726	2,499	(Z)	192	1,017
25	Furniture and fixtures.....	20	7	577	1,963	332	683	1,531	3,415	(Z)	1,022	6,008
251	Household furniture.....	15	6	534	1,760	297	612	1,374	2,926	(Z)	977	5,830
26	Paper and allied products.....	9	6	1,087	5,813	877	1,899	4,086	12,057	740	1,361	13,081
27	Printing and publishing.....	48	8	947	5,424	569	1,128	3,055	8,541	(Z)	886	7,055
275	Commercial printing.....	35	7	355	2,010	269	572	1,404	3,202	(Z)	308	2,187
28	Chemicals and allied products.....	27	13	4,268	28,126	3,155	6,381	17,965	105,975	5,981	3,277	71,153
30	Rubber and plastics products, n.e.c.....	10	6	282	1,730	190	416	829	5,116	(Z)	277	2,581
31	Leather and leather products.....	7	6	628	2,364	537	1,053	1,810	5,221	(Z)	479	2,603
32	Stone, clay and glass products.....	19	14	2,768	14,592	2,298	4,753	10,912	28,330	2,620	2,486	19,100
327	Concrete and plaster products.....	10	7	414	1,738	309	624	1,070	3,874	(Z)	240	1,601
33	Primary metal industries.....	17	10	3,176	17,734	2,666	5,290	14,024	29,257	653	2,528	21,918
332	Iron and steel foundries.....	6	6	2,609	14,650	2,215	4,413	11,810	23,130	578	1,733	11,251
34	Fabricated metal products.....	47	23	7,359	42,559	5,597	11,040	30,118	60,522	1,994	8,461	61,109
35	Machinery, except electrical.....	38	11	1,630	8,442	1,292	2,525	5,822	19,588	571	1,893	13,735
355	Special industry machinery.....	10	5	521	2,696	392	798	1,886	6,639	(Z)	627	3,714
36	Electrical machinery.....	12	7	1,090	5,142	867	1,684	3,525	7,616	(Z)	1,139	9,875
363	Household appliances.....	5	3	649	2,760	534	994	1,015	4,306	(Z)	478	4,674
39	Miscellaneous manufacturing.....	18	4	314	1,186	256	482	908	1,831	(Z)	145	764
--	Administrative and auxiliary ⁴	-	-	234	1,393	-	-	-	-	-	218	-
MEMPHIS SMSA (Consists of Shelby County, Tenn., and Crittenden County, Ark.)												
	All industries, total ²	789	339	47,434	239,897	34,284	69,750	153,422	568,804	28,089	41,850	396,948
20	Food and kindred products.....	112	75	8,457	42,444	5,286	11,180	23,346	110,835	7,436	8,475	74,814
201	Meat products.....	8	8	1,138	6,676	865	1,888	4,562	9,570	798	1,400	11,533
202	Dairies.....	16	10	793	4,245	366	760	1,326	10,616	1,061	964	8,277
204	Grain mill products.....	18	11	1,374	7,350	997	1,995	4,649	37,658	2,497	889	10,243
205	Bakery products.....	23	13	1,723	8,118	996	2,113	4,417	16,160	(Z)	2,110	16,172
208	Beverages.....	10	8	719	3,153	213	457	628	8,038	599	635	5,257
209	Miscellaneous foods and kindred products.....	33	23	2,411	11,934	1,571	3,502	6,872	26,734	1,980	2,109	20,915
23	Apparel and related products.....	34	15	2,060	5,542	1,439	2,708	4,001	10,759	(Z)	1,830	8,694
239	Fabricated textiles, n.e.c.....	21	9	1,032	3,344	793	1,458	2,089	6,689	(Z)	911	5,306
24	Lumber and wood products.....	69	33	4,587	16,737	4,081	8,641	13,336	30,155	635	4,960	25,037
242	Sawmills and planing mills.....	29	17	2,679	9,440	2,428	5,274	7,766	18,895	(Z)	(D)	(D)
243	Millwork and related products.....	22	9	885	3,348	757	1,573	2,474	5,884	(Z)	1,220	5,942
25	Furniture and fixtures.....	46	23	2,859	10,608	2,335	5,001	7,301	15,467	573	2,542	13,317
251	Household furniture.....	30	18	2,617	9,687	2,144	4,617	6,647	14,033	521	2,372	12,221
26	Paper and allied products.....	23	22	3,765	21,169	2,904	5,973	14,372	59,824	2,772	3,541	41,909
264	Paper and paperboard products.....	10	9	2,038	10,829	1,723	3,511	8,298	36,808	683	1,754	23,628
27	Printing and publishing.....	105	17	2,457	14,123	1,507	2,840	8,238	27,954	2,045	1,938	18,190
28	Chemicals and allied products.....	70	32	4,191	25,139	2,367	4,959	11,529	124,401	5,864	3,508	63,909
281	Basic chemicals.....	17	7	1,620	11,798	983	2,092	6,687	59,686	4,374	1,399	32,776
284	Cleaning and toilet goods.....	23	10	689	2,986	359	704	1,055	20,800	(Z)	523	8,010

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued
(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufac-ture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MEMPHIS SMSA—Continued (Consists of Shelby County, Tenn., and Crittenden County, Ark.)												
32	Stone, clay and glass products..	40	16	1,281	4,366	797	1,721	2,775	11,199	586	699	8,280
327	Concrete and plaster products.	30	13	947	3,375	530	1,181	2,073	8,926	528	574	7,885
33	Primary metal industries.....	16	8	778	3,674	656	1,400	2,815	4,128	937	541	3,273
34	Fabricated metal products.....	88	35	2,103	8,844	1,624	3,246	5,954	17,390	777	1,662	12,489
344	Structural metal products.....	55	22	1,544	6,763	1,185	2,357	4,476	10,860	(Z)	1,269	8,836
35	Machinery, except electrical....	70	18	3,783	24,726	2,733	5,414	16,601	44,110	2,354	3,477	30,885
36	Electrical machinery.....	17	6	1,798	8,860	1,593	3,012	7,239	26,328	663	997	11,986
37	Transportation equipment.....	22	10	1,301	6,203	1,071	2,219	4,436	12,843	860	1,128	9,951
39	Miscellaneous manufacturing, including ordnance ³	44	13	1,706	5,600	1,503	2,521	4,197	14,908	(Z)	1,199	8,036
398	} Miscellaneous manufactures ³ ...	23	7	687	2,020	599	908	1,512	4,128	(Z)	424	3,299
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	910	6,896	-	-	-	-	-	570	-
NASHVILLE SMSA (Consists of Davidson, Sumner, and Wilson Counties, Tenn.)												
	All industries, total ²	662	281	45,885	222,617	34,203	68,258	141,291	479,977	53,093	39,875	304,768
20	Food and kindred products.....	113	57	5,844	27,644	3,482	7,408	13,936	58,786	2,354	5,337	43,095
201	Meat products.....	21	14	1,892	9,551	1,425	2,911	6,462	12,460	795	1,410	9,504
202	Dairies.....	19	14	1,152	6,307	441	942	1,909	16,266	721	1,176	10,614
205	Bakery products.....	18	7	926	4,610	540	1,289	2,187	8,511	(Z)	1,053	8,371
22	Textile mill products.....	6	5	1,845	7,150	1,660	3,557	5,462	10,986	558	1,976	12,091
23	Apparel and related products....	27	21	4,108	11,817	3,493	6,776	9,062	21,839	1,020	3,211	14,793
24	Lumber and wood products.....	51	12	936	3,368	806	1,669	2,677	5,617	(Z)	893	3,754
25	Furniture and fixtures.....	38	11	1,477	5,663	1,312	2,428	4,438	9,631	(Z)	1,168	7,084
251	Household furniture.....	26	9	1,234	4,131	1,110	1,995	3,195	7,189	(Z)	982	5,506
26	Paper and allied products.....	12	8	639	2,657	548	1,074	2,004	5,352	(Z)	798	4,784
27	Printing and publishing.....	127	37	5,547	29,784	3,707	7,341	19,651	50,681	1,656	4,735	41,213
273	Books.....	5	4	493	2,430	272	529	1,403	6,725	(Z)	567	9,994
275	Commercial printing.....	61	14	2,826	15,486	2,290	4,587	12,122	24,786	852	2,294	15,464
279	Printing trades services.....	17	7	461	2,991	368	753	2,257	4,071	(Z)	366	2,750
28	Chemicals and allied products...	26	11	3,770	29,371	2,437	4,748	14,199	94,973	(D)	4,537	43,048
32	Stone, clay and glass products..	37	14	4,110	25,964	3,461	7,240	20,150	77,629	3,272	2,659	31,696
34	Fabricated metal products.....	63	29	3,307	14,960	2,610	5,157	9,545	30,799	2,426	2,481	19,069
344	Structural metal products.....	36	14	1,042	5,184	795	1,563	3,000	9,475	908	657	5,485
35	Machinery, except electrical....	47	12	1,008	5,389	836	1,777	3,983	9,063	(Z)	645	4,687
36	Electrical machinery.....	30	17	2,216	7,572	1,807	3,450	5,490	17,126	942	3,711	39,255
363	Household appliances.....	8	7	1,207	4,053	1,049	1,974	3,289	10,735	(Z)	3,119	34,551
37	Transportation equipment.....	19	13	3,945	21,937	2,898	5,626	12,563	33,379	4,316	1,123	7,753
--	Administrative and auxiliary ⁴ ...	-	-	1,290	7,061	-	-	-	-	-	1,959	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishments(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.



U.S. DEPARTMENT OF COMMERCE
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1963 CENSUS OF MANUFACTURES



MC63(P)-S44

Area series

TEXAS

preliminary report

Value added by manufacturing in 1963 in the State of Texas amounted to \$7,054 million, an increase of 11 percent from 1962 and 40 percent from 1958. Of this total, \$1,654 million was contributed by the chemicals and allied products industries and \$956 million by the petroleum and coal products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	11,402	3,391	508,539	2,847,202	361,122	744,568	1,742,966	7,053,797	541,410	106	140
1962 ³	(NA)	(NA)	496,909	2,668,703	351,274	726,632	1,634,490	6,360,738	587,875	104	126
1961 ³	(NA)	(NA)	486,472	2,533,260	344,604	703,206	1,558,032	6,003,580	646,532	102	119
1960 ³	(NA)	(NA)	485,881	2,460,509	345,593	704,823	1,519,513	5,817,047	514,534	102	115
1959 ³	(NA)	(NA)	486,099	2,410,149	347,298	707,882	1,500,682	5,614,018	431,646	102	111
1958.....	10,338	3,088	478,251	2,289,458	343,092	683,081	1,453,915	5,045,159	611,907	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

August 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS, A. Ross Eckler, Director



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
TEXAS, TOTAL.....	11,402	3,391	508,539	2,847,202	361,122	744,568	1,742,966	7,053,797	541,410	478,251	5,045,159
STANDARD METROPOLITAN STATISTICAL AREAS											
Abilene ⁴	108	32	3,412	14,183	2,393	5,075	8,382	34,702	739	3,572	29,804
Amarillo ⁵	166	34	3,656	18,933	2,456	5,158	11,642	41,772	2,178	3,683	41,004
Austin ⁶	243	59	5,897	25,970	3,786	7,761	14,234	48,284	2,405	4,996	33,445
Beaumont-Port Arthur ⁷	265	97	32,816	233,906	24,200	46,714	159,348	707,746	78,193	32,550	379,384
Brownsville-Harlingen-San Benito ⁸	124	36	4,778	15,551	3,647	7,270	9,310	36,426	2,310	4,103	22,017
Corpus Christi ⁹	158	50	7,577	44,947	4,861	10,209	27,282	109,312	15,804	7,682	117,822
Dallas ¹⁰	2,050	709	104,937	586,052	69,924	148,881	323,835	1,164,721	63,301	95,465	844,821
El Paso ¹¹	250	70	14,607	61,283	12,059	24,617	44,454	127,962	6,316	11,531	91,144
Fort Worth ¹²	937	302	50,074	316,395	33,346	71,595	176,226	590,665	28,779	56,415	523,283
Galveston-Texas City ¹³	95	28	9,526	71,583	6,921	13,788	48,861	342,101	39,481	10,962	270,107
Houston ¹⁴	2,197	689	106,059	695,124	70,735	146,479	406,127	1,889,693	144,599	(-)	(+)
Laredo ¹⁵	40	9	881	2,659	711	1,400	2,051	4,934	(Z)	940	3,979
Lubbock ¹⁶	244	60	5,453	25,443	3,757	8,243	15,649	55,412	3,666	4,191	44,460
Midland ¹⁷	40	7	563	3,760	220	466	1,105	5,898	(Z)	492	4,478
Odessa ¹⁸	120	28	2,223	13,557	1,478	3,168	8,577	62,561	1,883	2,029	27,812
San Angelo ¹⁹	91	22	1,989	7,777	1,375	2,786	5,010	18,348	903	2,166	12,868
San Antonio ²⁰	621	205	23,538	102,904	17,001	34,636	62,412	216,613	11,942	20,919	161,407
Texarkana ²¹	91	29	5,647	25,875	4,633	8,969	20,087	44,240	793	3,034	18,540
Portion in Texas.....	65	24	5,399	24,918	4,433	8,541	19,398	42,522	664	2,727	16,504
Portion in Arkansas.....	26	5	248	957	200	428	689	1,718	(Z)	307	2,036
Tyler ²²	102	42	7,248	34,151	5,723	11,046	23,773	74,009	10,196	5,576	39,677
Waco ²³	171	67	9,516	47,614	7,103	14,507	31,529	110,266	5,156	8,857	90,934
Wichita Falls ²⁴	136	38	3,423	16,235	2,300	4,745	9,443	30,711	2,464	(D)	(D)
COUNTIES ¹											
Anderson.....	27	9	1,067	4,597	905	1,863	3,714	10,835	940	959	7,081
Angelina.....	95	28	5,354	28,289	4,334	9,050	20,215	65,920	3,500	4,728	42,221
Bastrop.....	27	6	749	3,017	609	1,425	2,015	5,840	(Z)	739	4,468
Bell.....	69	26	2,812	11,674	2,207	4,362	7,433	24,291	1,286	2,445	17,218
Bexar.....	594	197	22,604	99,699	16,225	33,070	60,012	210,185	11,412	19,988	155,891
Bosque.....	16	4	357	1,062	312	584	793	1,620	(Z)	186	711
Bowie.....	65	24	5,399	24,918	4,433	8,541	19,398	42,522	664	2,727	16,504
Brazos.....	37	11	1,267	5,218	967	1,916	3,124	9,871	931	843	6,599
Brown.....	44	15	1,129	3,654	965	1,912	2,776	7,089	(Z)	1,087	6,125
Caldwell.....	17	4	269	1,027	228	433	862	1,962	(Z)	142	636
Cameron.....	124	36	4,778	15,551	3,647	7,270	9,310	36,426	2,310	4,103	22,017
Cherokee.....	75	25	2,575	7,878	2,305	4,384	6,308	13,146	597	1,713	7,742
Collin.....	58	15	2,247	8,892	1,878	3,909	6,429	15,985	613	1,694	7,439
Comal.....	24	5	1,765	6,763	1,657	3,540	5,909	12,145	(D)	1,910	12,812
Cooke.....	36	14	1,187	4,866	991	1,886	3,592	8,449	(Z)	1,135	6,673
Dallas.....	1,877	650	97,956	556,659	64,253	137,016	302,650	1,103,553	53,338	89,871	810,317
Dawson.....	17	3	292	1,064	253	540	869	2,249	(Z)	273	2,001
Denton.....	53	15	1,699	7,470	1,231	2,566	4,678	15,123	2,112	1,483	13,234
De Witt.....	23	6	1,163	3,821	945	1,673	2,252	6,711	(Z)	1,061	4,275
Eastland.....	28	6	566	1,553	520	975	1,372	3,770	(Z)	552	2,662
Ector.....	120	28	2,223	13,557	1,478	3,168	8,577	62,561	1,883	2,029	27,812
Ellis.....	62	29	3,035	13,031	2,562	5,390	10,078	30,060	7,238	2,417	13,831
El Paso.....	250	70	14,607	61,283	12,059	24,617	44,454	127,962	6,316	11,531	91,144
Fannin.....	27	7	1,023	4,332	882	1,871	3,572	12,939	765	1,244	7,918
Fayette.....	21	4	284	1,065	233	467	794	3,071	(Z)	265	1,442
Fort Bend.....	32	13	2,491	15,918	1,718	3,697	9,963	40,777	2,346	2,294	25,037
Galveston.....	95	28	9,526	71,583	6,921	13,788	48,861	342,101	39,481	10,962	270,107
Gillespie.....	17	5	333	1,031	294	594	823	1,655	(Z)	313	1,030
Gonzales.....	23	8	631	1,490	479	837	1,006	2,250	(Z)	485	2,223
Gray.....	37	11	1,465	9,335	1,069	2,501	6,187	39,406	2,964	1,107	22,761
Grayson.....	93	45	5,762	26,079	4,441	8,972	16,873	58,763	2,617	5,075	40,332
Gregg.....	95	29	3,250	16,415	2,515	5,409	11,487	28,112	1,217	3,002	21,849
Guadalupe.....	27	8	934	3,205	776	1,566	2,400	6,428	536	931	5,516
Hale.....	41	9	791	3,219	430	958	1,525	7,275	(Z)	454	3,551
Hardin.....	28	8	1,355	4,784	1,186	2,421	3,816	6,771	641	1,244	6,300
Harris.....	1,987	634	94,157	611,582	62,499	129,632	353,842	1,566,747	110,490	93,220	1,153,967
Harrison.....	59	23	5,066	28,838	3,404	6,484	15,368	68,440	6,245	4,051	47,723
Hays.....	12	3	400	1,280	349	594	903	3,052	(Z)	201	1,262
Henderson.....	28	9	1,920	7,549	1,785	2,961	5,049	16,499	523	515	2,690
Hidalgo.....	139	29	2,703	8,779	2,030	3,926	5,662	18,894	1,133	2,741	14,645
Hill.....	22	9	822	2,625	715	1,454	2,134	5,328	(Z)	587	2,125
Hopkins.....	25	8	1,032	3,956	801	1,552	2,556	10,795	(Z)	726	6,969
Houston.....	19	5	426	1,042	338	657	830	1,457	(Z)	327	1,148
Hunt.....	52	18	4,195	23,961	2,868	5,735	13,637	38,295	820	3,005	18,398
Jasper.....	52	10	1,652	7,471	1,392	2,995	5,671	20,843	1,946	1,521	12,302

See footnotes at end of table.

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Jefferson.....	214	78	24,893	177,006	18,767	36,116	124,936	544,865	51,819	26,737	258,952
Johnson.....	41	19	1,533	5,338	1,255	2,419	3,715	11,077	624	1,523	8,898
Kaufman.....	22	11	577	2,452	461	945	1,728	4,852	509	721	3,666
Kerr.....	15	4	582	2,301	341	668	1,404	3,776	(Z)	262	1,604
Lamar.....	50	20	2,221	8,861	1,801	3,667	6,741	27,443	(D)	2,012	12,976
Lavaca.....	13	8	484	1,659	400	797	1,241	5,210	(Z)	321	1,836
Limestone.....	18	4	497	1,561	428	949	1,259	2,707	(Z)	487	2,248
Lubbock.....	244	60	5,453	25,443	3,757	8,243	15,649	55,412	3,666	4,191	44,460
McLennan.....	171	67	9,516	47,614	7,103	14,507	31,529	110,266	5,156	8,857	90,934
Matagorda.....	21	5	417	2,200	306	749	1,412	5,770	989	162	1,192
Medina.....	15	3	443	1,713	342	696	1,249	2,973	(Z)	193	1,331
Midland.....	40	7	563	3,760	220	466	1,105	5,898	(Z)	492	4,478
Montague.....	17	4	350	1,229	274	551	893	2,077	(Z)	344	1,802
Montgomery.....	67	14	1,075	4,248	881	1,740	3,283	12,452	1,349	1,126	5,596
Moore.....	11	7	1,229	8,588	970	2,092	6,545	43,818	5,301	1,223	30,002
Nacogdoches.....	49	17	1,864	6,867	1,521	2,972	5,021	14,129	1,452	1,512	10,707
Navarro.....	40	16	1,945	6,624	1,663	3,229	4,974	13,170	1,070	1,969	11,817
Newton.....	21	3	265	892	231	506	774	2,346	(Z)	220	1,760
Nolan.....	21	8	810	4,192	619	1,382	2,932	16,167	(Z)	1,037	21,341
Nueces.....	158	50	7,577	44,947	4,861	10,209	27,282	109,312	15,804	7,682	117,822
Orange.....	51	19	7,923	56,900	5,433	10,598	34,412	162,881	26,374	5,813	120,432
Palo Pinto.....	24	12	983	4,378	800	1,584	2,945	9,398	783	657	4,174
Parker.....	26	5	615	2,295	527	1,024	1,803	4,432	(Z)	614	5,561
Folk.....	32	6	881	3,142	795	1,692	2,802	5,105	729	937	3,422
Potter.....	145	32	3,432	17,707	2,319	4,886	10,994	38,951	2,114	3,465	36,334
Red River.....	25	3	313	882	259	546	710	1,515	(Z)	428	1,562
Robertson.....	12	3	277	1,281	234	588	1,028	2,528	(Z)	98	354
Rusk.....	43	8	666	2,312	552	1,215	1,792	5,711	(Z)	541	2,967
Shelby.....	40	10	1,720	5,164	1,553	3,171	4,312	11,946	514	995	5,446
Smith.....	102	42	7,248	34,151	5,723	11,046	23,773	74,009	10,196	5,576	39,677
Tarrant.....	896	283	48,541	311,057	32,091	69,176	172,511	579,588	28,155	54,892	514,385
Taylor.....	91	28	3,203	13,177	2,239	4,686	7,671	32,786	638	3,332	27,245
Titus.....	25	9	729	2,796	612	1,258	2,205	7,912	(Z)	614	6,682
Tom Green.....	91	22	1,989	7,777	1,375	2,786	5,010	18,348	903	2,166	12,868
Travis.....	243	59	5,897	25,970	3,786	7,761	14,234	48,284	2,405	4,996	33,445
Tyler.....	28	6	595	1,596	543	1,094	1,301	1,815	(Z)	392	1,746
Upshur.....	27	5	332	1,366	279	511	1,085	2,197	(Z)	243	1,105
Val Verde.....	13	2	656	1,823	577	1,065	1,462	2,635	(Z)	251	1,153
Van Zandt.....	14	4	567	2,083	538	1,123	1,921	5,966	(Z)	506	4,527
Victoria.....	36	11	1,549	9,400	859	1,796	4,470	67,673	(D)	991	33,886
Walker.....	16	2	250	649	216	426	541	863	(Z)	381	1,028
Washington.....	27	8	844	2,996	686	1,460	2,203	7,561	(Z)	557	3,486
Webb.....	40	9	881	2,659	711	1,400	2,051	4,934	(Z)	940	3,979
Wharton.....	29	4	537	2,419	420	934	1,714	4,814	676	406	2,535
Wilbarger.....	19	5	717	2,312	653	1,338	1,888	3,477	(Z)	519	2,641
Williamson.....	26	10	935	3,267	736	1,502	2,513	6,296	(Z)	705	4,357
Wood.....	27	7	501	1,551	441	851	1,281	2,772	(Z)	157	885

(*) See footnote 5 table 4.

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Abilene Standard Metropolitan Statistical Area consists of Jones and Taylor Counties, Tex.⁵The Amarillo Standard Metropolitan Statistical Area consists of Potter and Randall Counties, Tex.⁶The Austin Standard Metropolitan Statistical Area is coextensive with Travis County, Tex.⁷The Beaumont-Port Arthur Standard Metropolitan Area consists of Jefferson and Orange Counties, Tex.⁸The Brownsville-Harlingen-San Benito Standard Metropolitan Area is coextensive with Cameron County, Tex.⁹The Corpus Christi Standard Metropolitan Statistical Area is coextensive with Nueces County, Tex.¹⁰The Dallas Standard Metropolitan Statistical Area consists of Collin, Dallas, Denton, and Ellis Counties, Tex.¹¹The El Paso Standard Metropolitan Statistical Area is coextensive with El Paso County, Tex.¹²The Fort Worth Standard Metropolitan Statistical Area consists of Johnson and Tarrant Counties, Tex.¹³The Galveston-Texas City Standard Metropolitan Area is coextensive with Galveston County, Tex.¹⁴The Houston Standard Metropolitan Statistical Area consists of Brazoria, Fort Bend, Harris, Liberty, and Montgomery Counties, Texas.¹⁵The Laredo Standard Metropolitan Statistical Area is coextensive with Webb County, Tex.¹⁶The Lubbock Standard Metropolitan Statistical Area is coextensive with Lubbock County, Tex.¹⁷The Midland Standard Metropolitan Statistical Area is coextensive with Midland County, Tex.¹⁸The Odessa Standard Metropolitan Statistical Area is coextensive with Ector County, Tex.¹⁹The San Angelo Standard Metropolitan Statistical Area is coextensive with Tom Green County, Tex.²⁰The San Antonio Standard Metropolitan Statistical Area consists of Bexar and Guadalupe Counties, Tex.²¹The Texarkana Standard Metropolitan Statistical Area consists of Bowie County, Texas and Miller County, Arkansas.²²The Tyler Standard Metropolitan Statistical Area is coextensive with Smith County, Tex.²³The Waco Standard Metropolitan Statistical Area is coextensive with McLennan County, Tex.²⁴The Wichita Falls Standard Metropolitan Statistical Area consists of Archer and Wichita Counties, Tex.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	11,402	3,391	508,539	2,847,202	361,122	744,568	1,742,966	7,053,797	541,410	7,478,251	5,045,159
20	Food and kindred products.....	1,886	722	74,971	341,830	47,361	101,562	183,931	923,362	73,960	75,535	710,642
201	Meat products.....	343	128	15,154	66,016	12,126	24,874	47,111	133,841	7,214	15,202	100,763
202	Dairies.....	163	92	10,047	49,213	3,544	8,040	14,241	123,142	4,846	11,421	106,515
203	Canned and frozen foods.....	141	60	7,040	22,021	6,105	12,229	16,358	48,899	13,495	6,560	41,030
207	Candy and related products.....	61	12	1,614	6,264	1,342	2,620	4,385	12,528	567	1,687	12,045
208	Beverages.....	283	112	9,864	48,511	4,167	9,534	17,789	144,157	15,555	9,126	101,915
209	Miscellaneous foods and kindred products.....	463	131	11,206	52,301	7,824	17,489	31,605	216,685	7,956	11,031	141,163
22	Textile mill products.....	66	27	6,461	22,109	6,081	12,538	19,480	37,089	5,072	7,275	33,587
221	Weaving mills, cotton.....	12	10	4,584	15,526	4,435	9,274	14,319	26,156	5,366	5,366	23,869
229	Miscellaneous textile goods..	33	7	910	2,986	750	1,492	2,220	5,035	(2)	907	4,976
23	Apparel and related products...	572	305	40,150	124,809	36,031	70,262	99,284	208,611	4,856	33,326	140,006
232	Men's and boys' furnishings..	84	76	17,937	52,679	16,436	31,792	43,183	89,820	2,396	12,628	49,253
233	Women's and misses' outerwear	163	121	10,265	33,681	9,024	17,908	26,297	53,910	1,109	8,167	32,933
234	Women's and children's underwear.....	19	11	2,034	6,700	1,827	3,723	5,213	11,850	(2)	1,698	8,039
236	Children's outerwear.....	40	28	3,133	9,052	2,808	5,420	7,226	14,697	(2)	2,966	12,018
238	Miscellaneous apparel.....	24	11	782	2,296	701	1,274	1,833	3,887	(2)	1,343	5,462
239	Fabricated textiles, n.e.c....	193	36	3,034	10,517	2,594	5,132	7,960	19,347	596	3,334	17,642
24	Lumber and wood products.....	928	173	17,515	59,819	15,258	31,215	47,794	105,617	8,954	17,159	78,571
243	Millwork and related products	273	58	5,731	22,785	4,866	10,099	17,457	41,992	3,903	25,263	25,263
244	Wooden containers.....	26	10	871	2,680	800	1,598	2,191	4,220	(2)	1,740	6,920
249	Miscellaneous wood products..	106	31	2,272	7,455	1,989	4,050	5,909	15,245	1,181	1,758	10,192
25	Furniture and fixtures.....	444	113	10,662	42,628	8,894	17,730	31,687	76,392	2,671	10,309	67,301
251	Household furniture.....	235	76	7,022	26,564	5,909	11,722	19,793	50,116	1,497	6,658	43,066
252	Office furniture.....	16	7	300	1,183	238	507	851	2,772	(2)	280	1,642
253	Public building furniture.....	25	11	1,558	6,210	1,294	2,468	4,566	9,026	546	1,467	9,172
254	Partitions and fixtures.....	86	15	1,293	6,919	1,072	2,272	5,164	11,242	(2)	1,370	9,890
259	Furniture and fixtures, n.e.c.....	82	4	489	1,752	381	761	1,313	3,236	(2)	534	3,531
26	Paper and allied products.....	150	91	11,506	68,036	8,687	18,419	45,567	148,740	11,821	9,688	113,681
264	Paper and paperboard products	58	30	2,938	15,100	2,234	4,677	9,798	32,927	2,475	2,748	24,578
265	Paperboard containers and boxes.....	76	50	4,659	24,515	3,377	7,051	14,645	42,571	4,788	2,706	25,800
27	Printing and publishing.....	1,741	251	30,154	153,403	18,760	36,846	91,252	286,840	13,330	26,544	211,279
271	Newspapers.....	516	91	14,316	72,312	7,075	13,293	36,310	137,752	5,120	13,864	113,768
272	Periodicals.....	109	5	778	4,378	241	417	1,294	9,409	(2)	729	5,791
273	Books.....	37	11	1,258	6,208	905	1,783	4,043	13,067	(2)	1,168	8,878
275	Commercial printing.....	859	102	9,121	46,217	6,945	14,025	32,457	78,589	4,496	7,461	54,335
276	Manifold business forms.....	31	12	1,994	10,213	1,558	3,257	7,151	23,469	1,976	973	10,188
278	Bookbinding and related work.....	33	12	957	4,011	763	1,509	2,728	8,507	(2)	938	7,192
279	Printing trades services.....	104	12	1,058	7,368	769	1,578	5,438	11,102	(2)	924	8,114
28	Chemicals and allied products..	639	233	44,037	331,290	28,348	58,023	194,716	1,653,810	169,521	38,808	1,054,829
281	Basic chemicals.....	140	75	26,108	212,251	16,952	34,340	125,235	1,094,934	141,635	24,670	747,630
282	Fibers, plastics, rubbers.....	31	22	6,621	50,930	4,543	9,487	33,339	285,176	16,472	4,790	125,545
283	Drugs.....	48	13	1,027	5,649	416	830	1,593	14,082	752	924	9,889
284	Cleaning and toilet goods.....	108	18	1,481	8,771	917	1,904	4,561	51,770	966	1,088	32,271
285	Paints and allied products...	77	36	2,564	15,413	1,295	2,656	6,666	47,504	1,166	1,940	28,329
287	Agricultural chemicals.....	84	28	2,183	11,752	1,436	2,932	7,126	49,533	2,614	2,107	47,803
29	Petroleum and coal products....	158	86	35,587	276,669	25,426	49,155	181,944	956,140	111,073	42,945	592,723
291	Petroleum refining.....	88	63	33,307	265,321	24,182	46,566	176,295	926,942	110,301	41,124	572,022
30	Rubber and plastics products, n.e.c.....	164	52	6,839	36,648	5,535	11,415	27,028	97,695	4,201	4,646	62,379
307	Plastics products, n.e.c.....	120	35	3,133	14,856	2,463	5,072	9,654	31,953	2,318	1,329	12,271
31	Leather and leather products:											
314	Footwear, except rubber.....	32	15	1,813	5,628	1,586	2,914	4,283	8,554	(2)	2,216	7,641
32	Stone, clay and glass products.	805	274	25,078	116,389	19,589	42,597	82,281	301,392	37,765	21,228	236,326
324	Cement, hydraulic.....	19	16	2,613	15,482	2,085	4,287	11,026	69,915	9,394	2,689	62,100
325	Structural clay products.....	71	54	5,254	20,174	4,453	9,428	14,793	33,494	3,201	5,033	27,505
327	Concrete and plaster products	544	154	11,810	53,292	8,678	19,630	35,772	134,137	13,603	9,277	100,514
328	Cut stone and stone products.	37	8	524	2,305	388	791	1,699	3,834	(2)	442	2,348
329	Nonmetallic mineral products.	78	26	2,488	13,139	1,898	4,097	8,956	32,664	9,712	1,789	21,808

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
33	Primary metal industries.....	199	106	27,906	176,268	22,791	46,722	132,004	381,757	20,905	24,134	297,968
332	Iron and steel foundries.....	44	26	5,963	27,754	5,224	10,395	21,875	46,520	2,539	5,164	35,310
333	Primary nonferrous metal.....	13	13	6,977	46,977	5,947	12,250	38,358	148,049	5,098	6,822	125,479
336	Nonferrous foundries.....	61	14	924	4,348	792	1,629	3,381	7,242	(2)	839	5,341
339	Primary metal industries, n.e.c.....	35	22	3,111	21,315	2,178	4,943	13,742	33,472	2,291	771	7,609
34	Fabricated metal products.....	1,010	314	33,180	179,235	25,275	53,296	122,691	312,763	17,422	28,827	239,009
341	Metal cans.....	12	7	1,978	15,000	1,678	3,534	11,934	33,208	5,937	2,117	26,448
342	Cutlery, hand tools, hardware	35	5	336	1,491	275	597	1,096	2,872	(2)	219	1,629
343	Plumbing and heating, except electric.....	28	7	1,051	5,140	784	1,602	3,217	13,773	740	1,066	9,810
344	Structural metal products.....	567	177	19,372	98,706	14,595	30,820	66,097	153,867	6,322	17,086	121,731
345	Screw machine products.....	23	10	626	3,034	413	886	2,036	4,457	(2)	406	3,930
346	Metal stampings.....	36	9	755	3,275	617	1,416	2,402	7,094	(2)	535	3,809
347	Metal services, n.e.c.....	126	25	1,494	7,364	1,246	2,602	5,701	12,348	805	1,617	9,913
348	Fabricated wire products, n.e.c.....	48	16	1,281	6,163	1,003	2,213	4,302	12,524	551	978	8,220
349	Fabricated metal products, n.e.c.....	135	58	6,287	39,062	4,664	9,626	25,906	72,620	2,258	4,803	53,519
35	Machinery, except electrical...	1,332	301	41,281	240,416	29,117	60,679	147,044	501,640	17,084	37,417	379,355
352	Farm machinery and equipment.	79	21	1,428	6,254	979	2,055	3,796	12,929	(2)	1,473	9,712
353	Construction and like equipment.....	250	116	20,930	129,068	14,179	29,564	76,094	271,549	8,632	20,706	235,660
355	Special industry machinery...	83	23	3,099	17,854	1,963	4,324	10,146	34,823	1,192	3,149	29,169
356	General industrial machinery.	124	31	3,463	20,028	2,447	5,218	12,141	46,392	1,319	3,028	26,436
358	Service industry machines....	101	41	5,520	27,939	4,154	8,355	17,439	66,924	2,155	4,318	38,334
359	Miscellaneous machinery.....	595	47	4,275	22,448	3,518	6,954	17,257	38,218	2,269	3,579	30,674
36	Electrical machinery.....	268	80	25,454	150,019	17,345	37,322	84,339	295,649	16,197	10,024	94,020
363	Household appliances.....	16	5	645	2,915	497	1,014	2,058	6,787	(2)	426	3,089
366	Communication equipment.....	32	14	8,698	61,335	4,330	9,960	27,881	134,769	8,968	3,277	23,516
369	Electrical products, n.e.c....	43	10	1,321	6,984	1,100	2,272	5,401	16,274	1,568	1,101	10,802
37	Transportation equipment.....	376	130	49,868	360,400	31,432	67,536	189,884	609,822	19,541	64,847	608,318
371	Motor vehicles and equipment.	139	46	7,891	54,869	6,233	15,159	41,380	188,495	5,795	6,004	84,935
372	Aircraft and parts.....	51	29	34,074	263,253	18,617	39,661	115,925	358,367	10,883	50,544	469,290
373	Ship and boat building.....	106	29	6,015	34,426	4,977	9,502	26,538	46,794	1,916	6,210	44,307
38	Instruments and related products.....	148	36	4,784	23,722	3,726	7,266	15,825	50,077	1,735	4,592	47,309
381	Scientific instruments.....	41	16	2,099	11,845	1,593	3,042	7,533	17,901	1,167	2,466	17,263
382	Mechanical measuring devices.	31	11	695	3,842	492	1,012	2,703	8,989	(2)	459	6,521
39	Miscellaneous manufacturing, including ordnance ³	428	68	10,721	53,751	8,646	16,567	38,379	88,131	4,740	5,978	65,929
394	Toys and sporting goods.....	89	18	1,881	6,234	1,613	2,978	4,457	12,219	(2)	1,118	6,350
--	Administrative and auxiliary ⁴ ..	-	-	9,039	78,434	-	-	-	-	-	11,847	-

- Represents zero. n.e.c. Not elsewhere classified. (D) Withheld to avoid disclosing figures for individual companies.

(2) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All Industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DALLAS SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	2,050	709	104,937	586,052	69,924	148,881	323,835	1,164,721	63,301	195,465	844,821
20	Food and kindred products.....	204	96	12,428	63,209	7,622	17,341	34,273	169,727	11,992	11,967	123,310
201	Meat products.....	27	12	2,058	12,294	1,610	4,346	8,625	20,748	1,711	2,191	11,024
202	Dairies.....	17	10	1,509	7,760	546	1,259	2,279	25,228	594	1,817	20,123
203	Canned and frozen foods.....	29	10	1,292	5,235	1,143	2,468	4,307	9,382	935	1,236	8,747
204	Grain mill products.....	18	10	758	3,831	564	1,222	2,697	9,532	(Z)	470	5,404
205	Bakery products.....	28	18	2,922	13,787	1,519	3,184	6,384	26,688	1,141	2,840	24,515
207	Candy and related products.....	12	4	372	1,950	335	680	1,743	4,114	(Z)	350	4,266
208	Beverages.....	23	12	1,460	7,562	528	1,206	2,071	38,402	4,927	1,201	23,741
209	Miscellaneous foods and kindred products.....	50	20	2,057	10,790	1,377	2,976	6,167	35,633	1,973	1,862	25,490
22	Textile mill products.....	14	4	811	2,764	746	1,604	2,456	4,116	(Z)	1,008	4,161
23	Apparel and related products...	224	134	12,355	43,704	10,832	21,694	33,318	72,338	1,351	10,165	48,683
232	Men's and boys' furnishings...	21	16	1,908	6,097	1,808	3,494	5,396	11,107	(Z)	1,588	6,129
233	Women's and misses' outerwear	97	73	6,682	23,826	5,796	11,825	18,229	39,580	771	5,192	23,144
235	Millinery, hats and caps.....	20	10	939	3,884	773	1,542	2,508	6,142	(Z)	928	5,323
236	Children's outerwear.....	14	10	717	2,325	621	1,189	1,645	3,788	(Z)	537	2,673
239	Fabricated textiles, n.e.c.....	54	18	1,384	4,751	1,190	2,373	3,508	7,889	(Z)	932	5,509
24	Lumber and wood products.....	66	13	919	3,221	776	1,570	2,483	6,424	904	531	3,703
243	Millwork and related products	50	7	514	2,051	429	889	1,574	4,267	768	297	2,247
25	Furniture and fixtures.....	81	27	2,350	11,011	1,894	3,856	7,899	21,491	(Z)	2,331	18,909
251	Household furniture.....	34	16	1,463	6,898	1,188	2,402	5,128	14,495	(Z)	1,475	12,549
254	Partitions and fixtures.....	24	6	573	2,897	471	1,010	1,960	4,178	(Z)	555	4,244
26	Paper and allied products.....	50	30	3,566	20,108	2,492	5,290	11,614	34,790	3,182	2,818	22,154
264	Paper and paperboard products	24	12	1,172	6,079	851	1,774	3,577	12,847	1,121	1,652	11,656
265	Paperboard containers and boxes.....	23	15	1,997	11,569	1,300	2,674	5,975	18,115	1,863	791	7,601
27	Printing and publishing.....	343	66	8,266	45,377	5,596	11,055	27,847	88,765	4,570	7,129	62,600
271	Newspapers.....	38	6	2,114	12,286	1,061	1,788	5,891	27,966	1,356	2,188	21,309
273	Books.....	15	5	902	4,693	607	1,247	2,738	10,576	(Z)	819	6,381
274	Miscellaneous publishing.....	15	2	441	1,704	363	724	1,271	2,933	(Z)	334	1,934
275	Commercial printing.....	199	35	2,358	13,140	1,813	3,658	8,983	22,492	1,445	2,248	18,101
278	Bookbinding and related work.	13	6	414	1,774	348	676	1,326	3,100	(Z)	357	2,787
279	Printing trades services.....	30	6	594	4,350	430	899	3,186	6,119	(Z)	478	4,237
28	Chemicals and allied products..	129	41	3,038	18,301	1,829	3,756	9,503	86,621	2,926	2,329	54,426
281	Basic chemicals.....	13	6	341	2,403	235	542	1,507	11,412	1,151	288	8,004
283	Drugs.....	12	5	286	1,198	146	282	523	2,668	(Z)	273	2,399
284	Cleaning and toilet goods....	42	12	997	6,222	645	1,330	3,549	42,913	712	776	28,353
285	Paints and allied products.....	24	13	1,036	6,442	568	1,159	2,966	24,031	644	804	13,379
289	Miscellaneous chemical products.....	28	3	254	1,469	159	313	683	4,175	(Z)	123	1,941
29	Petroleum and coal products....	15	10	593	3,119	474	1,000	2,170	4,995	(Z)	448	4,673
30	Rubber and plastics products, n.e.c.....	42	12	1,344	6,040	1,086	2,207	4,214	12,174	615	738	8,029
32	Stone, clay and glass products.	103	46	3,387	16,532	2,576	5,704	10,880	49,109	10,751	2,816	34,007
325	Structural clay products.....	11	9	752	3,184	584	1,237	1,869	5,245	1,735	896	5,516
327	Concrete and plaster products	62	26	1,815	8,704	1,375	3,146	5,880	22,811	2,619	1,223	12,589
33	Primary metal industries.....	28	11	801	4,029	674	1,438	2,999	11,558	(Z)	649	4,706
34	Fabricated metal products.....	229	75	6,138	31,639	4,627	9,963	20,802	58,480	2,997	5,300	38,557
343	Plumbing and heating, except electric.....	10	4	601	3,305	387	864	1,764	9,945	643	556	6,206
344	Structural metal products.....	114	36	3,283	16,586	2,472	5,305	10,890	26,050	920	3,330	21,731
346	Metal stampings.....	15	5	382	1,769	305	652	1,275	3,760	(Z)	347	2,711
347	Metal services, n.e.c.....	37	7	422	1,870	348	698	1,530	3,208	(Z)	259	1,686
349	Fabricated metal products, n.e.c.....	25	15	1,008	5,133	747	1,610	3,183	10,038	521	360	3,198
35	Machinery, except electrical...	239	62	9,027	51,173	6,261	13,377	30,885	109,708	4,167	7,143	78,967
353	Construction and like equipment.....	32	18	3,334	19,021	2,158	4,636	10,797	40,650	1,559	3,107	38,664
355	Special industry machinery.....	25	8	1,502	8,686	897	1,992	4,720	17,489	630	1,585	15,007
356	General industrial machinery.	20	5	838	4,879	597	1,191	3,098	13,438	(Z)	214	1,758
358	Service industry machines....	34	17	1,757	9,211	1,337	2,820	5,789	21,036	838	946	11,084
359	Miscellaneous machinery.....	83	3	527	2,670	444	884	2,194	5,135	(Z)	581	5,498
36	Electrical machinery.....	97	37	20,167	122,923	13,056	29,142	66,689	236,839	13,464	7,916	74,347
361	Electric distribution products.....	14	5	271	1,437	189	362	862	2,649	(Z)	174	1,525
369	Electrical products, n.e.c.....	15	6	746	4,520	593	1,234	3,342	9,664	1,435	617	7,044
37	Transportation equipment.....	57	25	14,451	106,510	7,717	16,657	48,108	178,878	4,454	25,888	243,264
373	Ship and boat building.....	8	3	424	1,717	310	563	1,093	951	(Z)	481	3,037
38	Instruments and related products.....	31	6	977	5,623	782	1,497	4,325	8,984	(Z)	930	12,017
39	Miscellaneous manufacturing....	86	13	934	4,052	738	1,447	2,871	8,656	(Z)	1,001	8,133
398												
399	Miscellaneous manufactures....	56	9	647	2,907	506	981	2,016	6,116	(Z)	737	6,043
190												
--	Administrative and auxiliary ³ ..	-	-	3,220	26,095	-	-	-	-	-	4,316	-

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
FORT WORTH SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	937	302	50,074	316,395	33,346	71,595	176,226	590,665	28,779	56,415	523,283
20	Food and kindred products.....	106	52	6,630	33,525	4,099	8,504	18,519	75,336	7,098	8,675	72,150
201	Meat products.....	13	8	2,073	11,444	1,584	3,013	8,215	13,841	(Z)	3,742	23,672
202	Dairies.....	8	6	1,021	4,833	330	749	1,363	15,097	620	1,021	11,529
204	Grain mill products.....	22	11	749	4,125	476	1,075	2,499	14,381	(Z)	908	13,825
205	Bakery products.....	6	2	670	3,335	424	958	1,805	6,700	(Z)	887	6,811
208	Beverages.....	12	6	475	2,193	152	352	501	6,269	(D)	469	3,234
209	Miscellaneous foods and kindred products.....	30	14	837	4,091	541	1,189	2,275	11,458	659	842	7,497
23	Apparel and related products...	36	12	1,594	4,756	1,188	2,324	2,994	7,001	(Z)	1,275	6,832
24	Lumber and wood products.....	58	10	628	2,388	488	947	1,720	3,918	(Z)	311	2,114
243	Millwork and related products	43	7	480	1,964	364	718	1,389	3,209	(Z)	172	1,328
25	Furniture and fixtures.....	55	19	1,525	5,824	1,300	2,629	4,473	9,487	(Z)	1,347	7,880
251	Household furniture.....	36	14	1,289	4,705	1,095	2,190	3,526	7,488	(Z)	999	5,700
26	Paper and allied products.....	23	15	1,202	6,238	939	1,947	4,274	11,639	1,572	1,013	11,117
265	Paperboard containers and boxes.....	17	11	996	5,277	769	1,632	3,583	9,637	1,555	899	10,048
27	Printing and publishing.....	141	20	2,483	13,603	1,533	3,007	8,171	23,300	1,584	2,181	18,791
275	Commercial printing.....	87	11	1,051	5,529	816	1,699	3,993	8,283	788	825	6,318
28	Chemicals and allied products..	43	12	1,165	6,582	663	1,357	2,981	19,642	864	913	12,644
281	Basic chemicals.....	12	4	312	1,940	225	471	1,329	8,107	(Z)	306	6,853
283	Drugs.....	6	3	407	2,525	123	243	489	7,451	(Z)	273	2,657
289	Miscellaneous chemical products.....	16	3	325	1,571	242	469	886	2,757	(Z)	250	2,504
29	Petroleum and coal products...	9	4	956	4,789	211	435	1,048	11,497	(Z)	956	9,253
30	Rubber and plastics products, n.e.c.....	30	13	958	4,540	752	1,593	3,173	8,865	873	489	4,181
31	Leather and leather products...	12	4	443	1,784	362	714	1,118	3,217	(Z)	496	2,329
32	Stone, clay and glass products..	30	14	1,117	5,956	868	1,927	3,560	12,830	1,388	1,165	14,797
327	Concrete and plaster products..	22	11	737	3,963	548	1,251	2,082	7,722	954	594	5,148
33	Primary metal industries.....	28	13	1,582	9,192	1,347	2,842	7,132	14,530	1,566	1,331	14,612
339	Primary metal industries, n.e.c.....	9	6	284	1,558	218	430	1,030	2,872	(Z)	203	1,772
34	Fabricated metal products.....	96	22	2,459	12,710	1,954	4,138	8,909	22,438	1,846	2,192	17,402
344	Structural metal products...	53	17	1,784	8,828	1,375	2,940	5,925	13,786	(Z)	1,712	12,537
35	Machinery, except electrical...	114	37	4,274	22,809	3,039	6,385	13,961	48,824	1,602	3,966	33,744
353	Construction and like equipment.....	17	12	1,458	7,530	1,060	2,158	4,572	13,281	(Z)	1,380	9,673
356	General industrial machinery..	13	3	914	4,916	671	1,494	3,032	10,614	(Z)	695	5,600
358	Service industry machines.....	15	8	853	4,329	633	1,260	2,828	15,173	(Z)	1,174	12,018
359	Miscellaneous machinery.....	45	6	450	2,269	359	771	1,694	3,896	(Z)	319	2,856
37	Transportation equipment.....	73	35	21,196	172,008	13,515	30,770	89,797	302,540	8,903	28,009	286,177
38	Instruments and related products.....	14	7	308	1,858	218	424	1,081	3,341	(Z)	272	3,892
39	Miscellaneous manufacturing, including ordnance ³	43	6	553	2,517	417	706	1,555	5,266	(Z)	527	3,722
394	Toys and sporting goods.....	10	2	274	1,246	191	287	635	2,938	(Z)	180	1,533
398	Miscellaneous manufactures ³ ...	27	4	261	1,183	213	393	860	2,086	(Z)	193	1,271
190	Administrative and auxiliary ⁴ ..	-	-	413	2,708	-	-	-	-	-	1,071	-
HOUSTON SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	2,197	689	106,059	695,124	70,735	146,479	406,127	1,889,693	144,599	(⁵)	(⁵)
20	Food and kindred products.....	187	81	11,221	60,306	6,742	14,622	31,809	218,786	6,599	(⁵)	(⁵)
201	Meat products.....	33	11	1,592	7,653	1,201	2,405	5,259	15,608	550	(⁵)	(⁵)
202	Dairies.....	17	10	1,576	9,323	480	1,074	2,227	21,066	569	(⁵)	(⁵)
204	Grain mill products.....	25	12	1,235	7,183	758	1,782	3,300	23,030	843	(⁵)	(⁵)
205	Bakery products.....	28	12	2,330	13,082	1,471	3,258	7,400	34,129	1,189	(⁵)	(⁵)
208	Beverages.....	16	11	1,171	5,056	407	882	1,439	11,165	1,052	(⁵)	(⁵)
209	Miscellaneous foods and kindred products.....	45	18	2,228	11,845	1,538	3,267	7,611	93,623	1,055	(⁵)	(⁵)
22	Textile mill products.....	10	3	535	1,959	502	1,030	1,702	3,295	(Z)	(⁵)	(⁵)
23	Apparel and related products...	56	13	1,348	4,816	1,135	2,126	3,491	8,776	(Z)	(⁵)	(⁵)
233	Women's and misses' outerwear	9	6	452	1,547	373	664	981	1,833	(Z)	(⁵)	(⁵)
239	Fabricated textiles, n.e.c....	38	5	756	2,891	635	1,266	2,190	6,279	(Z)	(⁵)	(⁵)
24	Lumber and wood products.....	149	29	2,328	8,270	1,964	3,964	6,284	14,090	1,390	(⁵)	(⁵)
243	Millwork and related products	36	9	735	3,222	608	1,307	2,255	5,494	(Z)	(⁵)	(⁵)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufac- ture	Capital expend- itures, new ¹	All employ- ees, number	Value added by manufac- ture
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
HOUSTON SMSA—Continued												
25	Furniture and fixtures.....	80	20	1,653	7,366	1,383	2,834	5,414	13,263	(Z)	(5)	(5)
251	Household furniture.....	39	14	1,163	4,571	975	1,973	3,255	8,201	(Z)	(5)	(5)
254	Partitions and fixtures.....	19	5	380	2,410	320	672	1,871	4,289	(Z)	(5)	(5)
26	Paper and allied products.....	37	22	3,163	20,679	2,397	5,025	14,473	42,381	2,136	(5)	(5)
265	Paperboard containers and boxes.....	16	11	799	3,992	613	1,325	2,597	7,364	(Z)	(5)	(5)
27	Printing and publishing.....	252	40	5,764	32,015	3,410	6,708	18,068	53,870	1,659	(5)	(5)
271	Newspapers.....	32	9	2,803	15,571	1,310	2,464	7,326	25,482	(Z)	(5)	(5)
275	Commercial printing.....	161	21	2,183	11,527	1,612	3,294	8,075	19,034	1,009	(5)	(5)
28	Chemicals and allied products...	180	83	16,174	127,431	10,097	20,583	71,572	601,657	61,373	(5)	(5)
281	Basic chemicals.....	48	34	10,367	86,993	6,470	13,010	47,924	415,972	48,057	(5)	(5)
282	Fibers, plastics, rubbers.....	13	10	2,299	17,878	1,615	3,429	12,249	95,580	8,518	(5)	(5)
287	Agricultural chemicals.....	15	8	951	5,936	672	1,353	3,962	32,435	1,062	(5)	(5)
289	Miscellaneous chemical products.....	38	13	1,060	7,863	659	1,379	4,121	34,216	3,151	(5)	(5)
29	Petroleum and coal products.....	31	18	10,505	90,533	6,377	12,344	47,324	321,942	39,187	(5)	(5)
291	Petroleum refining.....	17	14	10,188	88,921	6,148	11,858	46,205	317,188	38,968	(5)	(5)
295	Paving and roofing materials..	8	4	261	1,357	198	419	1,006	4,159	(Z)	(5)	(5)
30	Rubber and plastics products, n.e.c.....	48	15	1,431	7,602	1,145	2,390	5,416	14,237	926	(5)	(5)
306	Rubber products, n.e.c.....	13	5	772	3,932	656	1,348	3,103	6,548	(Z)	(5)	(5)
32	Stone, clay and glass products..	130	51	4,852	24,189	3,815	8,601	17,303	61,751	5,092	(5)	(5)
327	Concrete and plaster products..	76	30	2,455	11,477	1,873	4,480	8,155	24,202	3,018	(5)	(5)
329	Nonmetallic mineral products..	28	9	1,236	6,952	986	2,185	4,771	14,699	1,331	(5)	(5)
33	Primary metal industries.....	65	36	9,670	69,138	7,429	15,405	49,320	131,869	9,704	(5)	(5)
331	Steel rolling and finishing...	11	9	4,868	36,560	3,722	7,357	26,050	63,046	(Z)	(5)	(5)
332	Iron and steel foundries.....	13	5	756	4,122	639	1,287	2,986	6,927	(Z)	(5)	(5)
336	Nonferrous foundries.....	16	6	307	1,602	261	560	1,212	3,067	(Z)	(5)	(5)
339	Primary metal industries, n.e.c.....	15	10	2,448	17,559	1,701	3,876	11,345	26,876	2,096	(5)	(5)
34	Fabricated metal products.....	306	117	13,611	80,342	9,815	21,009	53,709	134,498	5,323	(5)	(5)
344	Structural metal products.....	153	59	6,738	36,134	4,671	10,122	23,034	59,229	2,005	(5)	(5)
347	Metal services, n.e.c.....	34	9	520	2,804	434	936	2,140	4,645	(Z)	(5)	(5)
348	Fabricated wire products, n.e.c.....	21	9	757	3,616	551	1,260	2,264	7,674	(Z)	(5)	(5)
349	Fabricated metal products, n.e.c.....	62	30	3,768	25,694	2,724	5,661	16,784	45,615	1,302	(5)	(5)
35	Machinery, except electrical...	400	100	14,890	96,550	10,062	20,883	57,686	205,542	6,662	(5)	(5)
353	Construction and like equipment.....	114	50	10,536	70,176	6,862	14,130	40,313	152,695	4,685	(5)	(5)
354	Metalworking machinery.....	19	5	623	3,761	452	910	2,551	7,446	(Z)	(5)	(5)
355	Special industry machinery.....	16	5	394	2,629	261	550	1,400	5,226	(Z)	(5)	(5)
356	General industrial machinery...	46	12	876	5,866	559	1,192	3,103	12,121	(Z)	(5)	(5)
358	Service industry machines.....	18	3	274	1,352	206	392	903	2,834	(Z)	(5)	(5)
359	Miscellaneous machinery.....	175	21	1,494	8,304	1,185	2,384	6,282	13,480	772	(5)	(5)
36	Electrical machinery.....	79	23	2,079	13,003	1,520	3,160	8,081	27,311	1,648	(5)	(5)
361	Electric distribution products.....	22	6	930	6,640	647	1,375	4,070	13,194	932	(5)	(5)
364	Lighting and wiring devices...	15	6	447	2,569	334	652	1,457	6,339	(Z)	(5)	(5)
37	Transportation equipment.....	68	19	2,141	11,920	1,704	3,410	8,936	17,809	991	(5)	(5)
373	Ship and boat building.....	37	8	1,354	8,289	1,089	2,190	6,315	10,237	(Z)	(5)	(5)
38	Instruments and related products	48	10	1,054	6,310	722	1,404	3,433	10,956	842	(5)	(5)
381	Scientific instruments.....	15	4	640	4,197	716	1,392	3,405	10,383	701	(5)	(5)
39	Miscellaneous manufacturing, including ordnance ³	69	8	587	2,856	445	849	1,884	5,337	(Z)	(5)	(5)
398	Miscellaneous manufactures ³ ...	39	5	384	1,997	297	552	1,324	3,734	(Z)	(5)	(5)
399												
190												
--	Administrative and auxiliary ⁴ ...	-	-	2,961	29,518	-	-	-	-	-	(5)	(5)

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.⁵The definition of this standard metropolitan statistical area has been revised since 1958. Comparable 1958 data based on the new definition for the area were not available in time for inclusion in this preliminary publication.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES

MC63(P)-S45



preliminary
report

Area series

UTAH

Value added by manufacturing in 1963 in the State of Utah amounted to \$705 million, an increase of 3 percent from 1962 and 69 percent from 1958. Of this total, \$212 million was contributed by the primary metal industries and \$145 million by the transportation equipment industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	1,095	323	53,329	326,371	33,374	66,837	181,518	704,629	29,757	142	169
1962 ³	(NA)	(NA)	50,397	303,057	31,227	61,621	163,387	685,317	39,986	134	164
1961 ³	(NA)	(NA)	46,427	272,296	29,906	59,592	153,195	631,485	35,937	123	151
1960 ³	(NA)	(NA)	44,708	244,249	29,583	58,243	146,317	547,372	33,756	119	131
1959 ³	(NA)	(NA)	39,350	209,374	27,338	53,031	126,700	457,045	29,487	105	109
1958.....	986	296	37,604	185,924	26,717	52,085	120,751	417,455	31,311	100	100

(NA) Not available. ^r Revised.

¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

² Includes expenditures for plants under construction but not in operation.

³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

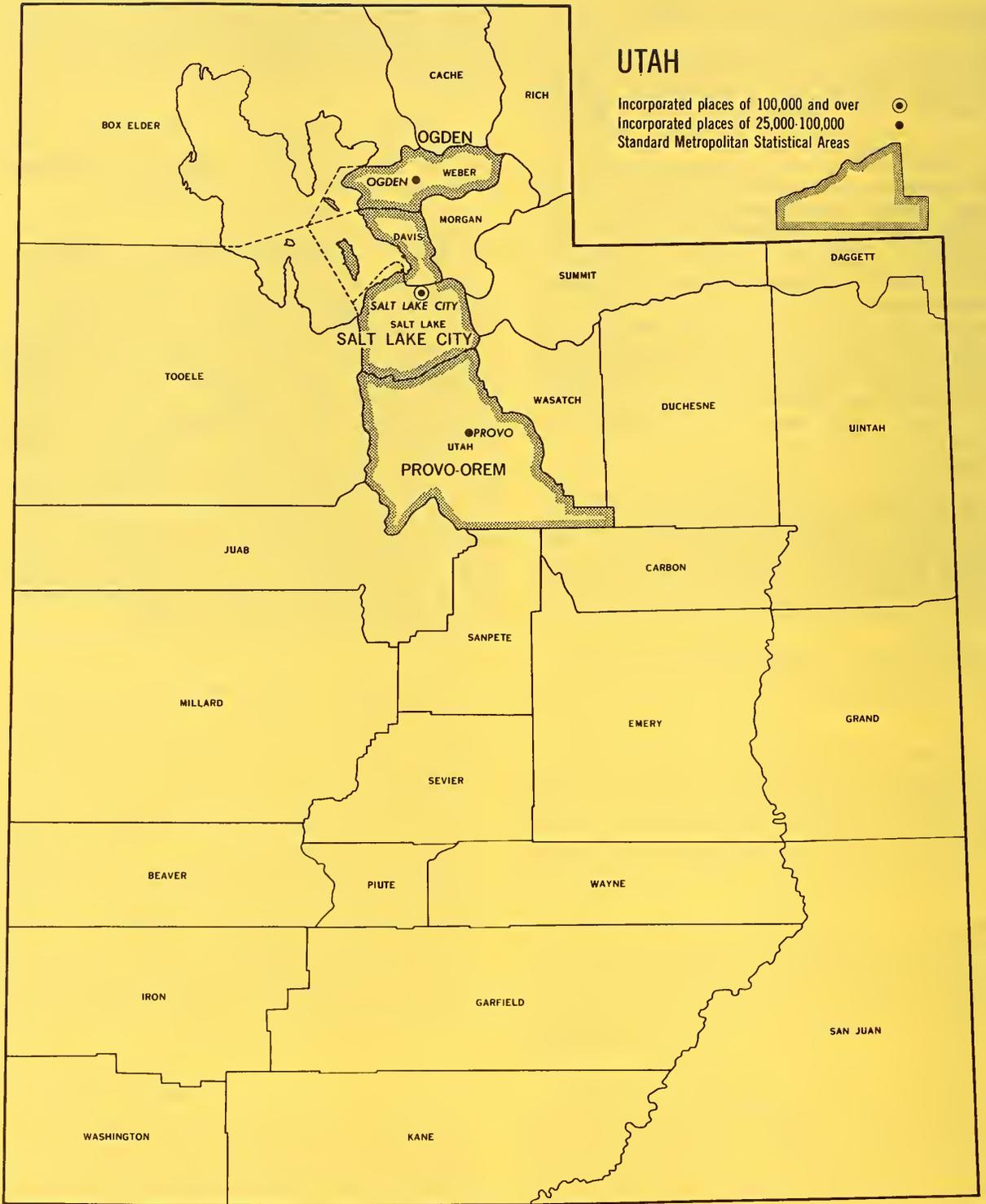
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



UTAH

Incorporated places of 100,000 and over
 Incorporated places of 25,000-100,000
 Standard Metropolitan Statistical Areas

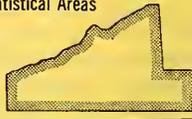


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufac-ture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
UTAH, TOTAL.....	1,095	323	53,329	326,371	33,374	66,837	181,518	704,629	29,757	37,604	417,455
STANDARD METROPOLITAN STATISTICAL AREAS											
Ogden ⁴	111	48	4,481	27,181	2,994	6,207	15,735	48,981	2,702	4,630	44,137
Provo-Orem ⁵	115	31	6,893	48,904	5,362	10,048	34,524	141,776	6,723	7,345	114,087
Salt Lake City ⁶	628	193	31,777	186,544	18,543	37,351	97,365	389,831	16,739	21,030	217,180
COUNTIES ¹											
Cache.....	47	15	1,210	5,253	942	1,828	3,709	11,660	850	954	8,911
Davis.....	43	11	1,305	7,801	778	1,636	5,041	23,179	1,096	1,062	13,436
Salt Lake.....	585	182	30,472	178,743	17,765	35,715	92,324	366,652	15,643	19,968	203,744
Sevier.....	15	5	452	1,977	380	767	1,611	6,007	(Z)	430	5,301
Tooele.....	11	7	552	3,702	458	1,002	2,652	7,236	(Z)	537	5,012
Utah.....	115	31	6,893	48,904	5,362	10,048	34,524	141,776	6,723	7,345	114,087
Weber.....	111	48	4,481	27,181	2,994	6,207	15,735	48,981	2,702	4,630	44,137

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Ogden Standard Metropolitan Statistical Area is coextensive with Weber County, Utah.⁵The Provo-Orem Standard Metropolitan Statistical Area is coextensive with Utah County, Utah.⁶The Salt Lake City Standard Metropolitan Statistical Area consists of Davis and Salt Lake Counties, Utah.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(number)	(\$1,000)
	All industries, total ²	1,095	323	53,329	326,371	33,374	66,837	181,518	704,629	29,757	^r 37,604	^r 417,455
20	Food and kindred products.....	278	98	8,502	41,408	5,518	11,332	24,874	99,375	5,298	8,864	83,814
201	Meat products.....	47	20	1,754	9,911	1,365	2,793	7,269	17,319	863	1,822	13,780
202	Dairies.....	54	17	1,927	9,422	759	1,476	3,262	21,702	1,390	1,921	16,765
204	Grain mill products.....	43	10	812	4,385	563	1,363	2,875	13,818	807	858	17,929
207	Candy and related products.....	19	6	592	2,195	486	937	1,435	3,962	(Z)	496	2,616
208	Beverages.....	29	12	708	3,371	369	741	1,525	10,101	830	510	4,697
209	Miscellaneous foods and kindred products.....	27	5	440	1,945	263	428	1,287	6,815	(Z)	504	4,890
23	Apparel and related products....	38	19	2,118	5,838	1,987	3,448	4,989	9,118	(Z)	1,638	6,749
24	Lumber and wood products.....	86	11	884	3,482	779	1,562	2,893	4,878	664	741	3,041
241	Sawmills and planing mills....	35	5	458	1,688	425	864	1,482	2,209	(Z)	448	1,609
243	Millwork and related products..	31	6	337	1,546	275	539	1,191	2,324	(Z)	234	1,137
25	Furniture and fixtures.....	45	11	772	3,734	643	1,372	2,837	5,616	(Z)	606	3,769
251	Household furniture.....	27	7	544	2,490	469	1,005	1,959	3,714	(Z)	452	2,544
27	Printing and publishing.....	149	24	2,540	13,253	1,716	3,362	8,956	28,599	1,026	2,019	18,954
271	Newspapers.....	37	6	1,015	5,590	573	1,085	3,458	14,164	(Z)	984	10,269
275	Commercial printing.....	75	9	1,094	5,651	847	1,714	4,173	10,544	624	755	6,337
28	Chemicals and allied products...	39	10	771	4,701	535	1,123	3,022	9,263	1,247	1,034	17,287
29	Petroleum and coal products....	14	7	1,000	7,120	722	1,526	5,141	24,213	1,427	1,080	^r 28,832
291	Petroleum refining.....	5	4	880	6,560	647	1,367	4,783	23,178	1,359	1,002	^r 28,153
32	Stone, clay and glass products..	106	37	2,742	15,496	2,069	4,208	11,120	35,377	2,468	2,604	32,787
327	Concrete and plaster products..	72	27	1,749	9,512	1,246	2,593	6,423	20,923	1,666	1,503	16,425
329	Nonmetallic mineral products..	14	4	321	1,836	274	525	1,528	4,107	(Z)	354	7,284
33	Primary metal industries.....	18	12	7,449	57,278	6,012	11,370	42,275	212,169	7,492	8,439	140,725
34	Fabricated metal products.....	90	36	2,713	15,623	2,108	4,308	11,964	30,259	751	2,792	21,390
344	Structural metal products.....	59	27	2,261	13,441	1,742	3,588	10,240	24,986	563	2,433	18,906
35	Machinery, except electrical....	80	17	3,281	18,960	2,171	4,483	12,312	34,118	650	2,258	25,341
353	Construction and like equipment.....	11	4	1,444	8,640	875	1,774	5,269	10,693	(Z)	1,576	20,079
359	Miscellaneous machinery.....	37	4	362	1,941	313	634	1,661	2,944	(Z)	197	1,495
36	Electrical machinery.....	17	8	1,672	8,154	1,434	3,027	6,490	12,159	(Z)	593	5,300
37	Transportation equipment.....	40	10	12,584	89,574	4,632	9,561	29,932	145,121	6,711	1,413	9,693
—	Administrative and auxiliary ³ ...	-	-	892	7,266	-	-	-	-	-	^r 857	-

- Represents zero. (Z) Less than \$500 thousand.

¹Includes expenditures for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas, or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES

MC63(P)-S46



preliminary report

Area series | VERMONT

Value added by manufacturing in 1963 in the State of Vermont amounted to \$309 million, a decrease of 5 percent from 1962 and an increase of 31 percent from 1958. Of this total, \$67 million was contributed by the nonelectrical machinery industry and \$36 million by the food and kindred products industry, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	964	267	34,042	167,756	26,065	52,562	113,773	309,416	15,837	105	131
1962 ³	(NA)	(NA)	35,847	176,288	27,501	57,320	118,496	326,598	19,790	110	138
1961.....	(NA)	(NA)	34,791	158,935	26,786	54,808	107,371	286,195	18,818	107	121
1960.....	(NA)	(NA)	36,415	161,051	28,493	58,421	110,876	282,458	13,749	112	120
1959.....	(NA)	(NA)	34,891	151,537	27,392	55,469	103,739	271,580	16,793	107	115
1958.....	1,016	277	32,495	132,466	25,397	50,252	92,129	235,898	11,598	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

March 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(F)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



VERMONT

Incorporated places of 25,000-100,000 •

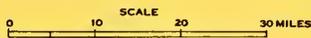


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
VERMONT, TOTAL.....	964	267	34,042	167,756	26,065	52,562	113,773	309,416	15,837	32,495	235,898
STANDARD METROPOLITAN STATISTICAL AREAS (None in this State)											
COUNTIES ¹											
Addison.....	40	9	1,248	5,296	1,016	2,116	4,002	11,351	(Z)	1,260	9,100
Bennington.....	72	33	3,876	16,735	3,160	5,925	12,086	32,659	1,545	3,387	24,038
Caledonia.....	55	9	1,447	6,748	1,099	2,176	4,834	13,899	542	1,484	11,658
Chittenden.....	105	34	4,810	27,639	2,774	5,762	13,251	45,268	2,599	4,096	33,910
Franklin.....	43	11	1,495	8,192	1,182	2,508	5,936	21,540	949	1,699	18,955
Orange.....	49	8	854	2,967	725	1,466	2,279	5,424	(Z)	915	5,275
Orleans.....	41	12	1,319	5,714	1,135	2,383	4,386	10,440	718	1,216	6,560
Rutland.....	115	33	4,863	21,986	3,953	8,227	16,418	45,772	2,419	3,896	30,050
Washington.....	154	45	3,196	14,373	2,592	5,174	11,151	27,201	1,030	3,933	25,605
Windham.....	112	35	3,281	14,631	2,615	5,271	11,708	26,707	1,420	3,141	24,832
Windsor.....	125	28	6,364	38,025	4,665	9,224	23,365	62,838	3,278	6,052	38,314

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ² ...	964	267	34,042	167,756	26,065	52,562	113,773	309,416	15,837	32,495	235,898
20	Food and kindred products.....	132	37	2,702	13,142	1,747	3,655	7,517	35,759	1,675	2,876	34,294
202	Dairies.....	69	17	1,167	5,405	752	1,560	3,115	12,891	797	1,062	10,372
204	Grain mill products.....	11	5	610	3,404	467	975	2,351	14,352	(Z)	811	13,422
205	Bakery products.....	14	5	417	2,045	226	485	934	3,900	(Z)	398	3,383
22	Textile mill products.....	19	11	809	2,514	738	1,219	2,215	3,701	(Z)	891	5,188
23	Apparel and related products...	27	15	1,668	4,959	1,506	2,750	4,129	8,074	(Z)	1,882	7,672
24	Lumber and wood products.....	323	42	3,461	11,960	3,079	6,225	10,058	18,497	1,768	3,826	17,786
241	Logging camps and contractors	109	1	361	1,063	327	622	957	1,811	(Z)	337	1,428
242	Sawmills and planing mills...	150	19	1,389	4,658	1,213	2,404	3,819	6,755	923	1,629	7,685
243	Millwork and related products	13	6	736	2,880	661	1,434	2,379	5,134	(Z)	1,067	4,759
249	Miscellaneous wood products..	44	13	761	2,636	676	1,345	2,237	4,002	(Z)	767	3,827
25	Furniture and fixtures.....	23	12	1,705	7,696	1,501	2,999	6,114	12,285	527	1,497	8,380
26	Paper and allied products.....	23	19	2,304	11,725	1,877	4,065	8,859	29,889	1,337	2,364	25,116
262	Paper mills, except building.	7	6	658	3,284	571	1,088	2,696	3,808	(Z)	583	4,352
27	Printing and publishing.....	105	23	2,378	11,250	1,741	3,193	8,123	20,143	1,173	2,178	14,244
271	Newspapers.....	26	9	636	3,042	383	754	1,726	5,550	(Z)	668	4,321
275	Commercial printing.....	56	6	355	1,562	299	593	1,268	2,412	(Z)	323	1,761
28	Chemicals and allied products..	13	4	304	1,605	238	540	1,113	3,953	(Z)	207	3,577
31	Leather and leather products...	9	7	748	2,633	576	1,198	2,274	4,463	(Z)	689	3,713
32	Stone, clay and glass products.	122	35	3,209	15,781	2,746	5,792	12,893	26,057	1,630	4,200	26,623
328	Cut stone and stone products.	101	31	2,971	14,471	2,566	5,382	12,122	23,402	1,127	3,540	21,334
33	Primary metal industries.....	10	6	604	3,112	474	925	2,037	4,499	(Z)	445	3,893
34	Fabricated metal products.....	31	8	708	3,421	560	1,194	2,407	6,208	(Z)	531	4,570
35	Machinery, except electrical...	64	22	6,346	39,383	4,531	9,103	23,829	67,118	2,899	6,134	41,155
354	Metalworking machinery.....	15	9	4,427	29,753	3,111	6,161	17,176	47,597	2,654	4,206	26,478
36	Electrical machinery.....	8	6	1,871	10,174	1,451	2,888	6,678	19,938	928	1,397	9,015
39	Miscellaneous manufacturing....	25	8	487	1,607	394	713	1,210	3,720	840	1,516	10,819
--	Administrative and auxiliary ³ ..	-	-	196	1,213	-	-	-	-	-	160	-

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

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees).

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

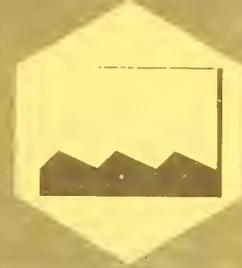
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BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES



MC63(P)-S47

preliminary report

Area series VIRGINIA

Value added by manufacturing in 1963 in the State of Virginia amounted to \$3,064 million, an increase of 7 percent from 1962 and 44 percent from 1958. Of this total, \$611 million was contributed by the chemical industries and \$324 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

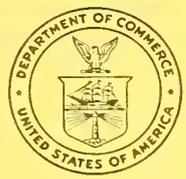
The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.—GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963	4,493	1,560	302,910	1,430,344	239,377	481,627	990,713	3,064,019	227,023	117	144
1962 ³	(NA)	(NA)	296,134	1,342,507	237,094	473,783	941,368	2,850,498	182,908	115	134
1961 ³	(NA)	(NA)	276,991	1,191,152	221,106	433,688	824,800	2,506,516	178,922	107	118
1960 ³	(NA)	(NA)	272,720	1,134,648	218,394	427,727	792,260	2,433,031	143,340	106	115
1959 ³	(NA)	(NA)	265,629	1,068,059	213,876	423,582	754,715	2,381,827	119,950	103	112
1958	4,414	1,381	258,136	986,545	204,357	397,567	686,814	2,122,652	146,463	100	100

(NA) Not available.
¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)
²Includes expenditures for plants under construction but not in operation.
³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
 BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

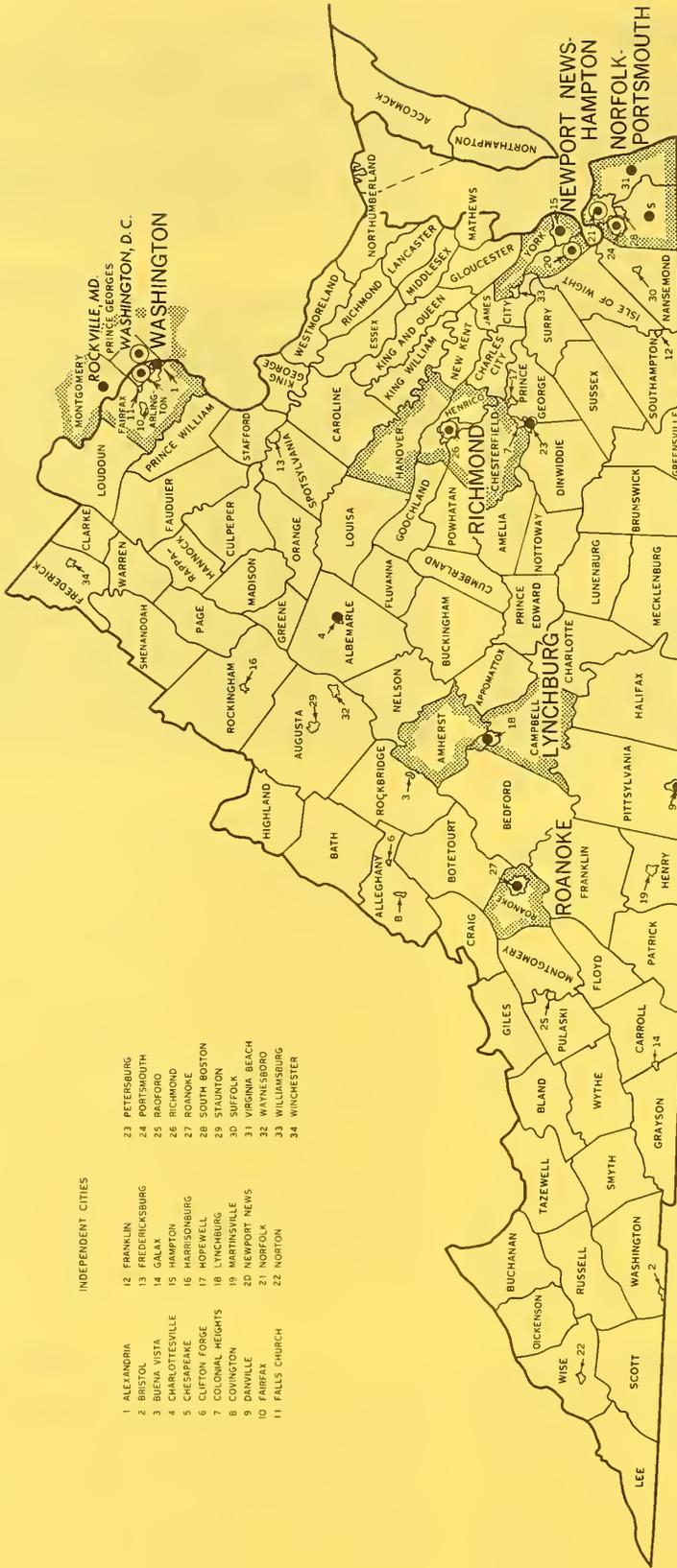
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



INDEPENDENT CITIES

- | | |
|--------------------|-------------------|
| 1 ALEXANDRIA | 23 PETERSBURG |
| 2 BRISTOL | 24 PORTSMOUTH |
| 3 BUENA VISTA | 25 RADFORD |
| 4 CHARLOTTESVILLE | 26 RICHMOND |
| 5 CHESAPEAKE | 27 ROANOKE |
| 6 CLIFTON FORGE | 28 SOUTH BOSTON |
| 7 COLONIAL HEIGHTS | 29 STAUNTON |
| 8 COVINGTON | 30 SUFFOLK |
| 9 DANVILLE | 31 VIRGINIA BEACH |
| 10 FAIRFAX | 32 WAYNESBORO |
| 11 FALLS CHURCH | 33 WILLIAMSBURG |
| | 34 WINCHESTER |

VIRGINIA

- Incorporated places of 100,000 and over
- Incorporated places of 25,000-100,000
- Standard Metropolitan Statistical Areas



Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture ³	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
VIRGINIA, TOTAL.....	4,493	1,560	302,910	1,430,344	239,377	481,627	990,713	3,064,019	227,023	258,136	2,122,652
STANDARD METROPOLITAN STATISTICAL AREAS											
Lynchburg ⁴	211	75	17,988	86,560	13,259	27,490	51,487	165,959	8,359	15,809	83,868
Newport News - Hampton ⁵	143	59	24,562	156,545	22,094	43,911	138,008	208,117	5,802	17,247	125,977
Norfolk - Portsmouth ⁶	355	146	16,119	82,233	11,568	24,324	52,491	196,892	8,793	15,202	132,916
Richmond ⁷	550	222	45,955	256,973	31,406	62,443	146,910	372,259	47,658	42,999	454,651
Roanoke ⁸	187	79	14,752	71,391	11,029	23,300	45,252	129,887	5,280	14,337	102,017
Washington ⁹	1,200	354	49,899	322,796	27,874	55,807	154,097	524,768	31,577	39,020	312,152
Portion in Maryland.....	417	125	15,908	106,265	8,917	19,005	48,878	154,643	9,250	9,130	80,514
Portion in Washington, D.C.....	557	154	22,262	148,025	11,403	21,643	65,028	260,511	13,491	21,334	198,089
Portion in Virginia.....	226	75	11,729	68,506	7,554	15,159	40,191	109,614	8,836	4,496	33,549
COUNTIES AND INDEPENDENT CITIES ¹⁰											
Accomack.....	47	16	1,172	2,917	1,059	2,065	2,468	4,780	(Z)	1,294	3,697
Albemarle.....	44	13	4,469	21,951	3,315	6,835	12,701	62,846	1,810	2,914	35,844
Alexandria.....	91	33	3,226	18,172	1,880	3,717	8,663	30,387	1,505	2,309	17,131
Amherst.....	49	6	515	1,650	453	924	1,368	2,686	(Z)	229	1,263
Appomattox.....	19	6	818	2,205	739	1,240	1,899	3,703	(Z)	678	2,015
Arlington.....	59	17	1,368	7,284	942	2,021	4,391	11,210	549	1,199	9,181
Augusta.....	38	11	2,719	15,507	2,062	4,386	9,983	34,932	1,978	2,381	23,480
Bedford.....	53	17	2,487	10,571	2,070	4,140	7,602	23,982	1,102	2,010	11,729
Bland.....	15	3	481	1,055	464	836	985	2,265	(Z)	328	850
Botetourt.....	18	7	891	3,119	752	1,365	2,387	10,304	(Z)	961	9,121
Bristol.....	44	24	3,971	17,003	2,876	5,720	10,836	29,595	1,227	3,434	24,964
Brunswick.....	47	17	1,151	2,919	1,014	1,851	2,463	4,922	(Z)	624	1,746
Buckingham.....	33	5	402	1,162	346	650	977	2,164	(Z)	341	988
Buena Vista.....	13	6	1,120	4,489	961	2,139	3,622	11,333	(Z)	958	6,450
Campbell.....	51	10	3,737	18,208	3,105	6,823	12,362	42,537	2,804	4,602	17,989
Caroline.....	35	11	471	1,323	400	789	1,113	2,502	(Z)	438	1,623
Carroll.....	45	6	944	2,965	875	1,650	2,340	6,115	522	638	2,349
Charlotte.....	37	7	1,118	3,717	979	2,047	3,069	8,956	943	1,054	4,447
Charlottesville.....	37	15	1,772	6,949	1,420	2,885	4,740	18,946	1,759	2,035	12,444
Chesapeake.....	46	27	2,476	11,786	1,788	3,730	7,214	24,884	1,224	2,951	24,142
Chesterfield.....	36	15	8,326	56,812	5,762	11,677	34,998	103,760	28,939	5,454	62,906
Clarke.....	11	4	745	2,320	664	1,242	1,875	4,718	(Z)	672	3,353
Culpeper.....	33	8	1,105	3,910	925	1,938	2,983	9,401	(Z)	716	4,627
Danville.....	53	32	12,727	46,572	11,226	21,482	36,849	72,382	5,121	13,145	69,025
Dinwiddie.....	19	7	360	1,091	332	633	1,007	1,528	(Z)	288	842
Essex.....	25	7	501	1,571	430	790	1,300	3,137	(Z)	371	1,327
Fairfax County and Fairfax City.....	59	22	6,894	41,720	4,575	9,120	26,389	66,170	6,742	867	6,053
Floyd.....	36	2	580	1,484	549	877	1,344	1,910	(Z)	496	1,368
Franklin.....	67	13	1,772	5,934	1,552	3,326	4,636	15,850	(Z)	1,494	7,128
Frederick.....	26	10	1,814	7,407	1,499	3,015	5,523	15,967	1,442	1,724	12,293
Fredericksburg.....	22	11	1,458	5,096	1,215	2,339	3,911	8,363	(Z)	1,428	5,927
Galax.....	22	13	2,606	8,702	2,370	4,650	6,996	16,410	(Z)	2,699	13,758
Gloucester.....	31	5	314	652	286	520	598	1,779	(Z)	446	1,343
Grayson.....	23	8	2,359	6,393	2,211	3,914	5,613	9,899	742	1,870	6,834
Greensville.....	31	13	1,238	4,531	1,054	2,111	3,476	14,938	(Z)	1,520	11,125
Halifax.....	28	8	1,763	6,977	1,443	2,960	4,852	12,915	803	2,088	7,331
Hanover.....	54	11	1,192	3,855	960	1,860	2,736	6,248	885	985	3,741
Harrisonburg.....	37	20	2,329	7,552	2,025	4,134	5,836	17,414	729	1,598	8,806
Henrico.....	65	20	2,013	9,961	1,447	3,098	6,030	20,640	1,104	1,613	10,701
Henry.....	75	24	11,566	57,325	9,632	21,041	42,253	192,425	25,933	9,238	138,630
Hopewell.....	22	8	4,914	30,966	3,485	7,392	20,635	99,452	11,030	3,934	64,676
Isle of Wight.....	23	11	3,317	16,686	2,593	5,476	11,789	42,555	4,633	2,508	22,446
Lancaster.....	30	15	734	1,843	620	1,075	1,360	4,203	(Z)	769	2,083
Louisa.....	50	15	787	2,016	664	1,216	1,697	4,154	(Z)	937	3,233
Lunenburg.....	25	13	1,180	3,260	1,067	2,046	2,729	6,066	527	545	1,883
Lynchburg.....	111	59	13,736	66,702	9,701	19,743	37,757	120,736	5,182	10,878	64,616
Madison.....	22	6	503	1,259	453	821	1,112	1,889	(Z)	506	1,410
Martinsville.....	37	22	7,644	27,639	6,900	13,678	22,147	52,800	5,772	5,813	30,810
Mecklenburg.....	42	16	3,717	11,514	3,293	6,217	9,121	25,079	1,117	3,107	16,877
Montgomery.....	29	8	5,624	28,747	4,538	8,746	20,231	34,424	571	3,721	20,845
Nansemond.....	25	12	689	2,110	605	1,224	1,641	3,802	(Z)	674	3,303
Newport News.....	70	31	22,652	149,020	20,581	41,122	133,082	187,310	4,861	15,483	107,116
Norfolk City.....	220	88	11,074	60,522	7,860	16,778	38,804	146,725	5,959	9,918	91,261
Northampton.....	21	9	980	2,761	852	1,613	2,184	6,168	(Z)	1,095	6,291
Northumberland.....	44	13	868	1,974	767	1,278	1,479	3,716	(Z)	615	2,116
Nottoway.....	27	8	871	2,477	788	1,469	2,186	4,862	599	744	3,158
Orange.....	20	11	1,942	7,517	1,449	2,999	4,699	12,184	756	1,821	11,254
Page.....	22	8	1,422	4,554	1,289	2,439	3,704	10,600	(Z)	1,194	6,452
Patrick.....	60	5	1,131	3,829	1,079	2,156	3,465	9,693	605	1,277	7,615
Petersburg.....	47	26	5,555	23,069	4,835	9,539	18,449	95,826	2,158	5,268	70,570

See footnotes at end of table.

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number ²	Value added by manufacture
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES AND INDEPENDENT CITIES ¹⁰ —Continued											
Pittsylvania.....	54	12	2,467	10,127	2,034	4,236	6,992	19,512	3,629	1,237	7,026
Portsmouth.....	70	28	2,412	9,365	1,815	3,609	6,091	24,077	1,554	2,049	16,216
Prince Edward.....	23	6	740	2,216	633	1,131	1,691	3,329	(2)	666	2,056
Prince George.....	24	7	604	2,532	482	925	1,632	5,637	565	162	711
Prince William.....	35	7	526	2,763	411	849	1,931	5,399	(2)	314	2,684
Pulaski.....	37	19	3,743	14,228	3,251	7,039	11,111	23,828	1,392	2,854	12,234
Radford.....	13	9	1,528	6,912	1,242	2,566	10,177	14,239	615	8,993	4,710
Richmond.....	29	6	805	2,603	692	1,192	1,544	3,157	(2)	641	3,288
Richmond City.....	395	176	34,424	186,345	23,237	45,808	103,146	441,611	16,730	34,947	377,303
Roanoke.....	64	26	6,281	34,321	4,575	9,523	20,882	72,090	2,272	5,123	50,847
Roanoke City.....	123	53	8,471	37,070	6,454	13,777	24,370	57,797	3,008	9,214	51,170
Rockingham.....	58	25	3,988	14,493	3,069	6,163	10,157	48,581	2,692	2,700	47,108
Russell.....	13	2	470	1,429	429	926	1,280	1,648	(2)	272	1,016
Shenandoah.....	41	14	1,853	5,383	1,644	3,201	4,364	8,962	1,092	1,679	6,655
Smyth.....	37	11	4,002	18,046	3,186	6,295	12,921	51,867	1,624	4,105	38,401
South Boston.....	16	10	1,935	7,140	1,649	3,280	5,182	13,017	(2)	1,012	5,767
Southampton.....	25	8	555	1,878	470	910	1,548	6,090	815	705	5,755
Staunton.....	28	11	2,014	6,776	1,756	3,675	5,719	10,080	(2)	1,835	8,481
Suffolk.....	35	14	3,363	11,236	2,949	5,578	9,072	43,783	1,675	3,167	34,046
Sussex.....	32	4	454	1,499	404	836	1,269	3,124	659	367	1,094
Tazewell.....	38	14	1,775	6,483	1,529	3,065	4,968	13,085	889	1,370	6,728
Warren.....	20	6	2,331	12,001	1,908	4,132	9,384	33,866	1,179	2,656	27,684
Washington.....	36	9	993	3,891	850	1,696	3,067	9,609	847	1,135	11,134
Waynesboro.....	24	13	6,421	40,057	4,344	8,800	22,428	91,636	8,197	5,817	48,578
Winchester.....	34	14	1,543	6,431	1,262	2,644	4,641	14,207	1,397	1,529	8,938
Wise.....	24	8	664	2,485	509	1,001	1,662	3,694	(2)	499	2,782
Wythe.....	19	5	1,083	3,153	987	1,915	2,740	5,314	(2)	980	6,739

(2) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.⁴The Lynchburg Standard Metropolitan Statistical Area consists of Lynchburg City and Campbell and Amherst Counties, Virginia.⁵The Newport News-Hampton Standard Metropolitan Statistical Area consists of Newport News and Hampton Cities and York County, Virginia.⁶The Norfolk-Portsmouth Standard Metropolitan Statistical Area consists of Chesapeake, Norfolk, Portsmouth, and Virginia Beach Cities, Virginia.⁷The Richmond Standard Metropolitan Statistical Area consists of Richmond City and Chesterfield, Hanover, and Henrico Counties, Virginia.⁸The Roanoke Standard Metropolitan Statistical Area consists of Roanoke City and Roanoke County, Virginia.⁹The Washington, D.C., Standard Metropolitan Statistical Area consists of the District of Columbia; Alexandria, Fairfax, and Falls Church Cities and Arlington and Fairfax Counties, Virginia; Montgomery and Prince Georges Counties, Maryland.¹⁰The 1963 and 1958 data may not be strictly comparable for some counties and cities because of boundary redefinitions between the 2 census years.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	4,493	1,560	302,910	1,430,344	239,377	481,627	990,713	3,064,019	227,023	258,136	2,122,652
20	Food and kindred products.....	659	343	31,803	125,647	21,536	43,873	72,284	323,697	17,438	31,396	240,963
201	Meat products.....	90	38	6,373	25,670	5,062	10,745	19,298	53,276	2,470	5,703	35,790
202	Dairies.....	73	52	4,186	19,365	1,661	3,708	7,147	46,073	2,763	4,674	39,360
203	Canned and frozen foods.....	161	87	7,052	19,534	6,248	11,670	15,251	57,182	1,675	6,716	34,900
207	Candy and related products..	21	10	2,464	7,744	2,231	4,048	6,503	22,344	1,335	2,388	21,790
208	Beverages.....	103	62	3,754	17,347	1,362	3,165	4,664	41,221	4,635	3,268	29,326
	Miscellaneous foods and kindred products.....	67	28	2,059	9,399	1,379	2,843	4,990	45,567	1,744	2,257	28,549
21	Tobacco manufactures.....	34	31	13,914	63,174	12,011	22,199	49,780	308,113	8,552	13,404	265,346
211	Cigarettes.....	6	6	8,925	45,884	7,892	15,198	38,456	272,465	7,096	8,721	236,634
214	Tobacco stemming and reworking	20	18	3,434	11,150	2,907	4,825	7,221	15,008	1,160	2,979	14,296
22	Textile mill products.....	100	88	35,529	131,817	32,155	65,102	110,581	262,330	16,225	34,935	208,310
222	Weaving mills, synthetics.....	16	16	4,317	18,009	3,901	8,719	15,236	44,450	1,263	4,533	30,230
224	Narrow fabric mills.....	8	6	1,185	3,728	1,135	2,187	3,380	7,341	772	6,976	
225	Knitting mills.....	39	33	7,887	24,539	7,277	13,617	20,831	41,901	2,828	7,272	34,191
226	Textile finishing, except wool.....	6	6	2,198	9,783	1,825	4,192	7,458	17,647	4,305	1,586	8,631
228	Yarn and thread mills.....	5	5	1,116	3,513	1,068	2,164	3,243	4,052	(2)	1,098	5,306

See footnote at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
23	Apparel and related products...	189	145	27,241	78,564	25,363	47,056	68,222	114,597	3,397	21,479	75,435
232	Men's and boys' furnishings...	51	46	10,864	29,356	10,282	18,970	26,253	47,529	1,249	9,819	33,818
233	Women's and misses' outerwear...	38	32	5,213	14,704	4,793	9,251	12,911	16,976	518	1,917	13,817
234	Women's and children's underwear.....	15	15	3,532	9,273	3,310	5,992	8,184	12,424	(Z)	1,359	4,559
236	Children's outerwear.....	26	22	2,549	6,532	2,439	4,278	5,991	8,874	(Z)	1,817	4,882
239	Fabricated textiles, n.e.c....	43	18	2,120	7,951	1,733	3,371	5,365	13,754	878	1,904	9,724
24	Lumber and wood products.....	1,609	266	21,299	60,853	18,552	36,027	49,109	109,667	11,860	22,285	77,184
241	Logging camps and contractors.	432	21	2,166	4,969	1,910	3,575	4,069	9,194	1,718	1,776	5,792
242	Sawmills and planing mills....	998	166	11,512	29,849	10,030	18,948	25,444	52,051	7,333	13,860	40,899
243	Millwork and related products.	90	40	4,027	15,069	3,338	6,977	10,529	28,995	1,625	3,311	17,309
244	Wooden containers.....	30	14	1,803	5,164	1,687	3,198	4,324	6,706	(Z)	2,162	7,122
249	Miscellaneous wood products...	59	25	1,791	6,202	1,587	3,329	4,743	12,751	907	1,176	6,062
25	Furniture and fixtures.....	151	72	19,843	81,453	17,452	38,950	64,751	171,173	7,091	16,355	104,669
251	Household furniture.....	101	53	17,311	69,337	15,808	35,603	58,289	147,773	6,379	14,292	87,343
254	Partitions and fixtures.....	17	7	1,087	5,886	572	1,219	2,558	8,857	(Z)	1,052	7,613
259	Furniture and fixtures, n.e.c....	18	3	375	1,694	283	557	1,082	2,816	(Z)	382	3,531
26	Paper and allied products.....	68	52	12,174	70,608	9,842	20,782	51,805	173,612	27,739	10,993	131,028
264	Paper and paperboard products.	24	17	2,315	11,463	1,929	4,022	8,376	21,538	1,064	2,210	14,919
265	Paperboard containers and boxes.....	30	21	2,331	11,230	1,969	4,221	8,325	20,674	2,687	1,829	14,287
27	Printing and publishing.....	481	82	10,660	53,137	7,322	14,323	34,169	91,448	5,635	9,618	66,234
271	Newspapers.....	125	31	4,637	24,490	2,472	4,694	12,727	45,232	2,426	4,355	33,453
273	Books.....	19	5	938	3,611	816	1,550	2,729	6,730	(Z)	762	4,423
275	Commercial printing.....	254	33	3,470	17,212	2,691	5,337	12,632	26,790	2,380	3,172	19,809
279	Printing trades services.....	36	7	463	3,186	383	768	2,489	4,889	(Z)	268	2,403
28	Chemicals and allied products...	162	67	34,941	218,211	24,189	49,036	132,650	610,668	82,821	30,592	452,453
281	Basic chemicals.....	31	14	4,969	29,789	7,391	20,338	20,338	110,708	9,007	5,158	86,900
282	Fibers, plastics, rubbers.....	11	11	21,735	138,771	15,307	31,308	87,158	381,948	69,099	18,790	273,672
285	Paints and allied products....	20	6	418	2,378	229	491	920	4,949	(Z)	357	3,462
287	Agricultural chemicals.....	36	24	1,663	6,701	1,184	2,524	4,341	16,065	856	2,014	15,799
30	Rubber and plastics products, n.e.c.....	34	19	4,830	20,468	3,964	7,921	14,366	42,331	3,238	2,505	15,594
307	Plastics products, n.e.c.....	22	12	2,822	12,148	2,302	4,552	8,460	24,509	2,751	671	4,486
31	Leather and leather products...	20	19	4,313	13,777	3,923	7,153	11,644	19,649	(Z)	5,029	19,174
32	Stone, clay and glass products..	276	112	9,790	46,030	8,113	17,046	34,708	109,885	11,396	7,786	75,839
323	Products of purchased glass....	9	7	600	2,453	487	990	1,558	4,534	(Z)	585	4,647
325	Structural clay products.....	15	13	852	3,444	760	1,617	2,772	7,935	(Z)	790	4,577
327	Concrete and plaster products..	211	77	5,700	27,976	4,625	10,032	20,857	66,974	8,775	4,085	42,796
329	Nonmetallic mineral products..	21	7	1,415	5,798	1,202	2,397	4,680	11,900	1,214	1,214	9,478
33	Primary metal industries.....	53	34	5,566	31,967	4,723	10,443	25,769	62,042	4,499	4,829	48,972
332	Iron and steel foundries.....	26	17	3,379	18,281	2,921	6,626	15,004	32,318	2,076	2,863	18,764
34	Fabricated metal products.....	188	79	9,900	51,701	7,486	15,433	32,961	101,745	7,683	8,325	57,644
344	Structural metal products.....	131	60	6,121	32,278	4,532	9,228	20,236	60,800	2,515	5,706	35,464
35	Machinery, except electrical....	181	49	5,764	28,964	4,314	8,862	19,365	58,679	3,998	3,777	28,649
352	Farm machinery and equipment..	12	7	527	2,209	460	990	1,681	5,437	(Z)	282	1,985
353	Construction and like equipment.....	21	7	461	2,545	364	785	1,647	6,790	(Z)	343	3,168
355	Special industry machinery.....	19	9	746	4,176	495	1,006	2,338	6,694	1,211	840	5,084
356	General industrial machinery...	16	7	640	3,239	550	1,230	2,659	8,069	686	215	1,278
359	Miscellaneous machinery.....	87	11	820	3,777	681	1,391	2,935	6,279	(Z)	576	3,638
36	Electrical machinery.....	56	32	16,915	97,337	11,120	21,932	51,038	180,815	5,907	5,960	69,819
38	Instruments and related products	27	9	1,862	8,073	1,426	2,941	4,970	12,843	898	1,671	8,807
381	Scientific instruments.....	10	3	523	2,697	392	812	1,604	4,765	(Z)	206	1,414
39	Miscellaneous manufacturing, including ordnance ³	96	26	4,411	22,296	3,119	6,034	12,827	41,649	1,616	3,540	28,107
396	Costume jewelry and notions....	9	4	762	2,345	714	1,341	2,515	4,649	(Z)	503	4,120
398												
399	Miscellaneous manufactures ³ ...	66	13	1,942	11,504	1,144	2,233	5,426	17,025	1,014	965	6,555
190												
--	Administrative and auxiliary ⁴ ...	-	-	6,948	55,384	-	-	-	-	-	6,227	-

¹Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

²Includes expenditures for plants under construction but not in operation.

³The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

⁴Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁵In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
RICHMOND, VIRGINIA (Consists of Richmond City and Chesterfield, Hanover, and Henrico Counties, Va.)												
	All industries, total ²	550	222	45,955	256,973	31,406	62,443	146,910	572,259	47,658	42,999	454,651
20	Food and kindred products.....	55	36	4,471	21,634	2,629	5,319	11,739	44,471	1,419	5,278	40,412
201	Meat products.....	10	5	979	5,327	755	1,469	3,780	7,516	(Z)	(D)	(D)
202	Dairies.....	8	5	723	2,757	186	428	777	6,775	(Z)	1,012	7,814
205	Bakery products.....	14	12	1,827	9,140	1,238	2,514	5,775	17,961	642	2,044	15,491
209	Miscellaneous foods and kindred products.....	10	4	375	1,925	135	269	304	3,748	(Z)	486	3,583
21	Tobacco manufactures.....	13	11	8,442	41,844	7,141	13,582	32,778	216,801	6,269	9,116	202,236
23	Apparel and related products...	26	18	3,355	12,667	2,960	5,653	9,635	20,574	707	(D)	(D)
239	Fabricated textiles, n.e.c....	14	8	1,295	5,299	1,045	2,044	3,412	9,032	535	1,059	6,304
24	Lumber and wood products.....	88	15	1,752	5,691	1,410	2,763	4,190	9,782	740	1,961	7,648
242	Sawmills and planing mills...	58	6	713	2,001	604	1,148	1,682	4,135	(Z)	913	3,231
243	Millwork and related products	12	6	826	3,077	624	1,267	2,010	4,366	(Z)	825	3,346
25	Furniture and fixtures.....	34	10	1,089	5,269	858	1,799	3,480	10,893	(Z)	1,005	6,607
251	Household furniture.....	14	5	779	3,531	643	1,343	2,564	8,921	(Z)	824	5,277
26	Paper and allied products.....	23	21	3,505	17,916	2,966	6,402	13,669	33,737	1,545	3,400	26,517
264	Paper and paperboard products	10	9	1,125	5,324	958	1,997	3,918	9,395	(Z)	1,269	7,896
265	Paperboard containers and boxes.....	9	8	1,280	6,749	1,087	2,328	5,079	12,490	530	1,070	9,548
27	Printing and publishing.....	118	29	3,849	19,517	2,809	5,517	13,113	32,417	2,166	3,645	24,506
275	Commercial printing.....	74	18	1,807	9,258	1,372	2,728	6,483	13,930	1,534	1,775	10,847
28	Chemicals and allied products..	39	13	8,055	58,903	5,013	10,129	30,997	130,567	28,464	5,513	79,019
32	Stone, clay and glass products.	26	15	1,046	5,764	852	1,786	4,376	11,284	821	929	9,095
327	Concrete and plaster products	20	12	859	4,959	681	1,430	3,722	9,483	704	751	7,745
34	Fabricated metal products.....	42	22	2,350	12,023	1,793	3,462	7,737	17,942	1,104	1,784	10,384
344	Structural metal products.....	29	17	1,379	6,971	1,010	1,884	4,110	9,731	(Z)	1,433	8,637
35	Machinery, except electrical...	31	8	823	4,773	562	1,141	2,796	7,652	1,282	743	4,756
355	Special industry machinery...	6	5	574	3,402	360	728	1,755	5,320	(D)	570	3,576
39	Miscellaneous manufacturing...	17	6	450	1,943	368	723	1,283	4,016	(Z)	491	3,154
--	Administrative and auxiliary ³ ..	-	-	4,158	33,986	-	-	-	-	-	4,105	-

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

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES



MC63(P)-S48

preliminary
report

Area series

WASHINGTON

Value added by manufacturing in 1963 in the State of Washington amounted to \$2,873 million, an increase of 2 percent from 1962 and 33 percent from 1958. Of this total, \$899 million was contributed by the transportation equipment industries and \$363 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	5,198	1,227	225,848	1,478,801	153,173	302,627	881,344	2,872,770	144,221	105	133
1962 ³	(NA)	(NA)	230,980	1,492,646	156,390	305,751	871,528	2,822,813	186,455	107	130
1961 ³	(NA)	(NA)	215,535	1,335,264	146,415	280,664	777,737	2,463,892	141,031	100	114
1960 ³	(NA)	(NA)	216,978	1,276,071	150,593	287,796	773,797	2,281,954	141,846	101	105
1959 ³	(NA)	(NA)	228,996	1,283,172	161,695	313,078	808,629	2,343,415	111,902	107	108
1958.....	5,065	1,157	215,017	1,173,302	157,260	305,811	761,376	2,166,632	160,445	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parentheses may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

June 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

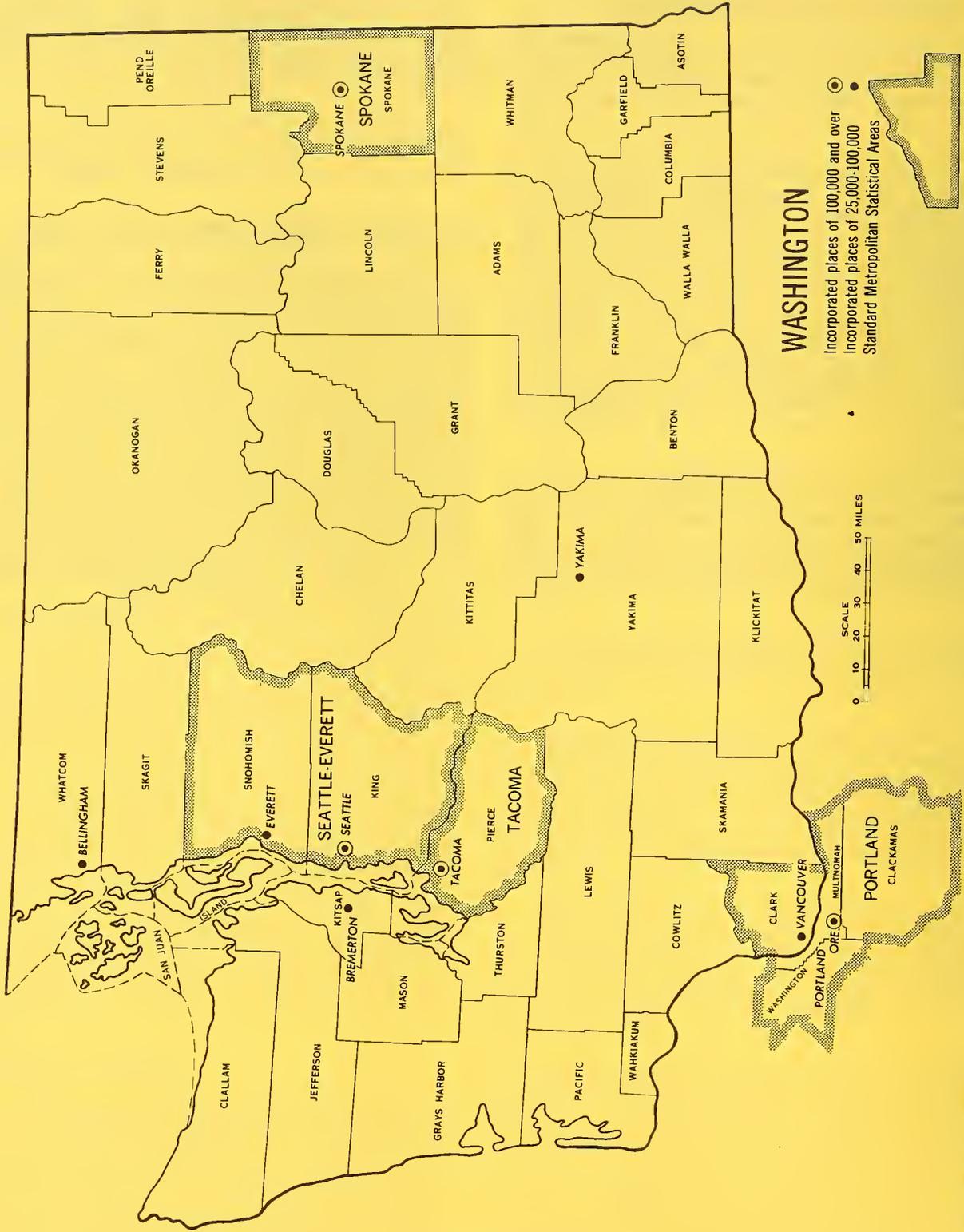


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ⁴	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employ-ees, number ²	Value added by manufac-ture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
WASHINGTON, TOTAL.....	5,198	1,227	225,848	1,478,801	153,173	302,627	881,344	2,872,770	144,221	215,017	2,166,632
STANDARD METROPOLITAN STATISTICAL AREAS											
Portland ⁴	1,832	503	66,002	393,660	48,300	93,590	260,612	772,286	49,092	58,334	597,572
Portion in Oregon.....	1,691	465	57,154	338,569	41,159	79,555	219,065	641,777	40,281	50,494	496,649
Portion in Washington.....	141	38	8,848	55,091	7,141	14,035	41,547	130,509	8,811	7,840	100,923
Seattle-Everett ⁵	2,026	491	121,892	854,154	70,458	139,792	421,280	1,467,036	52,244	114,871	1,064,863
Spokane ⁶	364	94	11,917	76,986	8,930	17,804	54,781	172,893	10,261	12,776	170,582
Tacoma ⁷	481	144	16,626	98,890	12,495	24,371	68,547	198,479	8,659	16,648	152,475
COUNTIES ¹											
Chelan.....	63	18	2,040	12,750	1,700	3,500	9,999	37,118	1,841	1,876	27,722
Clallam.....	127	24	2,802	17,454	2,484	4,668	14,779	44,057	4,293	2,645	31,917
Clark.....	141	38	8,848	55,091	7,141	14,035	41,547	130,509	8,811	7,840	100,923
Cowlitz.....	139	38	9,386	56,095	7,975	15,144	45,591	133,027	13,984	8,591	103,389
Ferry.....	35	5	372	1,460	323	597	1,229	2,432	(Z)	341	2,515
Grays Harbor.....	223	59	8,636	46,286	7,673	16,111	39,289	81,909	5,448	7,510	64,436
King.....	1,678	426	111,246	792,729	61,714	123,067	373,887	1,329,248	45,346	105,648	959,964
Kitsap.....	79	7	683	3,753	464	912	2,386	7,254	523	1,046	7,989
Kittitas.....	53	9	668	3,273	559	1,088	2,617	5,415	616	4,875	4,875
Klickitat.....	38	8	979	5,413	893	1,806	4,758	8,792	507	1,141	10,079
Lewis.....	207	41	3,582	17,868	3,146	5,671	15,025	30,355	3,155	3,080	20,321
Mason.....	74	8	1,825	10,286	1,402	2,696	7,364	17,429	4,384	1,995	15,958
Okanogan.....	57	6	1,244	6,201	1,104	2,211	5,197	9,430	2,001	1,556	8,957
Pacific.....	64	13	1,139	4,864	1,036	1,680	4,320	9,745	937	1,013	7,122
Pierce.....	481	144	16,626	98,890	12,495	24,371	68,547	198,479	8,659	16,648	152,475
Skagit.....	163	37	4,251	24,701	3,500	6,593	19,088	72,489	7,042	3,347	41,036
Skamania.....	17	5	568	3,338	529	992	3,006	3,867	(Z)	700	6,303
Snohomish.....	348	65	10,646	61,425	8,744	16,725	47,393	137,788	6,898	9,223	104,899
Spokane.....	364	94	11,917	76,986	8,930	17,804	54,781	172,893	10,261	12,776	170,582
Stevens.....	73	9	786	3,215	684	1,286	2,757	5,979	721	657	6,265
Thurston.....	97	23	2,699	16,892	2,262	4,716	13,216	41,431	2,494	2,514	29,480
Wahkiakum.....	16	2	286	1,637	244	423	1,313	1,883	(D)	315	668
Walla Walla.....	55	15	2,463	11,030	2,061	4,487	8,238	29,487	2,799	1,389	14,462
Whitcom.....	153	29	3,895	21,429	3,052	5,575	15,771	63,209	4,078	4,092	53,944
Whitman.....	17	5	373	2,024	205	360	967	3,608	(Z)	160	1,675
Yakima.....	182	61	5,604	29,990	4,610	9,417	23,089	63,837	3,573	5,586	53,696

(D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Portland Standard Metropolitan Statistical Area consists of Clackamas, Multnomah, and Washington Counties, Oreg.; and Clark County, Wash.⁵The Seattle-Everett Standard Metropolitan Statistical Area consists of King and Snohomish Counties, Wash.⁶The Spokane Standard Metropolitan Statistical Area is coextensive with Spokane County, Wash.⁷The Tacoma Standard Metropolitan Statistical Area is coextensive with Pierce County, Wash.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	5,198	1,227	225,848	1,478,801	153,173	302,627	881,344	2,872,770	144,221	215,017	2,166,632
20	Food and kindred products.....	688	266	27,192	152,294	19,511	38,322	99,004	363,218	16,285	26,487	297,396
201	Meat products.....	100	31	3,587	21,812	2,821	5,599	16,189	40,000	1,215	3,322	31,917
202	Dairies.....	95	44	3,960	26,680	1,803	3,626	11,899	54,906	3,330	4,810	49,474
203	Canned and frozen foods.....	197	96	9,418	40,416	8,474	16,303	33,430	96,726	4,488	7,773	76,672
204	Grain mill products.....	56	13	1,536	8,994	1,108	2,150	6,239	27,048	1,020	1,921	27,733
208	Beverages.....	62	22	2,509	18,728	1,423	2,787	10,091	59,961	2,823	2,688	47,825
209	Miscellaneous foods and kindred products.....	66	17	1,343	7,006	916	1,760	4,291	20,629	1,086	1,186	13,140
22	Textile mill products.....	20	5	694	3,034	609	1,162	2,387	5,752	(Z)	639	4,210
23	Apparel and related products...	136	46	4,131	15,100	3,486	6,122	10,648	25,208	(Z)	3,489	17,971
233	Women's and misses' outerwear.	27	13	1,119	3,884	970	1,683	2,660	6,190	(Z)	1,024	5,001
239	Fabricated textiles, n.e.c.....	79	10	766	3,271	621	1,202	2,094	5,193	(Z)	876	5,032
24	Lumber and wood products.....	1,872	348	43,434	227,002	39,334	76,028	199,063	363,024	39,687	41,568	293,345
241	Logging camps and contractors.	1,020	80	9,587	48,847	8,640	17,929	43,172	81,934	15,320	7,867	63,546
242	Sawmills and planing mills.....	552	169	20,325	102,694	18,398	33,800	89,553	164,614	14,170	20,251	134,304
243	Millwork and related products.	222	82	12,063	68,376	11,053	22,004	60,821	105,481	9,679	11,818	82,060
244	Wooden containers.....	23	4	503	2,188	464	871	1,870	3,297	(Z)	649	4,737
249	Miscellaneous wood products..	55	13	956	4,897	779	1,424	3,647	7,698	(Z)	983	8,698
25	Furniture and fixtures.....	155	28	2,472	12,892	2,020	3,837	9,842	21,035	567	2,906	20,913
251	Household furniture.....	95	20	1,751	8,691	1,460	2,691	6,850	14,799	(Z)	2,363	16,676
254	Partitions and fixtures.....	32	3	270	1,848	217	458	1,348	2,509	(Z)	225	1,802
26	Paper and allied products.....	81	57	17,906	118,184	14,911	30,282	92,797	326,207	26,340	15,767	251,780
262	Paper mills, except building..	12	12	7,332	48,727	6,205	12,501	39,371	135,772	11,633	6,278	102,313
264	Paper and paperboard products.	25	12	2,891	16,401	2,447	4,889	12,981	40,326	1,928	2,646	23,687
265	Paperboard containers and boxes.....	26	17	1,661	10,219	1,308	2,648	7,427	17,494	950	1,635	13,468
27	Printing and publishing.....	511	77	8,495	50,790	4,845	8,658	28,718	87,231	4,545	8,058	72,252
271	Newspapers.....	163	37	5,318	32,018	2,623	4,548	16,137	56,273	3,041	5,357	49,451
275	Commercial printing.....	235	27	2,218	13,511	1,622	3,047	9,500	21,597	1,057	1,858	15,780
28	Chemicals and allied products...	153	41	10,977	89,950	6,580	13,390	47,797	236,179	2,900	10,924	173,907
281	Basic chemicals.....	35	15	9,335	80,277	5,588	11,542	42,738	211,661	1,200	9,457	155,058
285	Paints and allied products....	25	8	433	2,509	255	482	1,309	7,259	(Z)	351	5,274
289	Miscellaneous chemical products.....	26	6	455	2,860	342	633	1,971	5,978	982	516	5,800
29	Petroleum and coal products....	25	9	1,406	10,546	901	1,799	6,311	64,108	5,924	1,305	33,345
32	Stone, clay and glass products..	267	71	5,498	34,775	4,212	8,341	25,586	72,771	6,779	4,910	53,228
327	Concrete and plaster products.	197	52	3,697	23,596	2,727	5,391	16,889	44,479	4,911	3,025	30,344
329	Nonmetallic mineral products..	28	4	371	2,180	299	608	1,697	5,978	(Z)	451	5,602
33	Primary metal industries.....	77	35	9,773	70,798	8,159	16,261	55,061	202,461	10,745	10,320	172,040
332	Iron and steel foundries.....	26	13	984	6,323	856	1,670	5,038	9,701	(Z)	874	6,563
34	Fabricated metal products.....	306	69	6,041	40,723	4,763	9,179	29,866	77,288	2,446	6,661	65,122
344	Structural metal products.....	169	42	3,754	25,893	2,929	5,595	18,825	43,193	1,293	4,005	37,222
347	Metal services, n.e.c.....	33	2	273	1,828	216	425	1,316	3,052	(Z)	186	1,574
348	Fabricated wire products, n.e.c.....	20	7	297	1,764	226	434	1,214	3,238	(Z)	229	2,653
35	Machinery, except electrical...	345	65	6,962	46,793	5,251	10,265	33,001	73,093	2,958	5,265	52,829
352	Farm machinery and equipment..	29	6	341	1,886	269	542	1,331	3,370	(Z)	322	2,430
353	Construction and like equipment.....	36	15	2,288	16,114	1,768	3,464	11,746	25,289	1,156	1,285	12,305
354	Metalworking machinery.....	19	1	418	3,130	319	652	2,397	5,498	(Z)	343	3,361
355	Special industry machinery....	47	15	1,474	10,273	1,069	2,094	6,861	14,928	(Z)	1,107	11,905
356	General industrial machinery..	33	5	398	2,641	283	554	1,586	4,412	(Z)	603	6,108
359	Miscellaneous machinery.....	152	14	1,460	9,023	1,173	2,293	7,086	14,286	629	1,334	14,423
36	Electrical machinery.....	71	22	2,713	17,159	1,652	3,261	8,358	29,819	1,183	1,242	12,240
37	Transportation equipment.....	204	49	72,405	550,907	34,657	71,531	222,378	898,828	22,243	69,744	626,046
371	Motor vehicles and equipment..	31	11	1,891	12,457	1,457	2,880	8,977	20,797	760	1,394	12,569
39	Miscellaneous manufacturing, including ordnance ³	193	24	1,799	9,288	1,435	2,636	6,652	15,489	566	1,817	13,239
394	Toys and sporting goods.....	47	4	323	1,142	272	492	895	2,538	(Z)	280	1,974
398												
399	Miscellaneous manufactures ³ ...	103	17	1,055	6,024	814	1,485	4,111	9,152	(Z)	949	7,257
190												
--	Administrative and auxiliary ⁴ ...	-	-	2,879	22,983	-	-	-	-	-	2,955	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.- GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
PORTLAND SMSA ("All manufacturing" totals for the Portland SMSA (which includes Clark County in Washington) appear in table 2. Industry group statistics for this area are shown in the report for the State of Oregon)												
SEATTLE-EVERETT SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	2,026	491	121,892	854,154	70,458	139,792	421,280	1,467,036	52,244	114,871	1,064,863
20	Food and kindred products.....	243	100	10,575	65,172	6,741	13,433	38,322	137,380	5,796	9,934	105,602
201	Meat products.....	32	12	1,354	8,490	1,053	2,168	6,318	15,502	525	1,299	12,656
202	Dairies.....	29	16	1,687	12,510	676	1,383	4,896	29,537	2,270	1,929	24,146
203	Canned and frozen foods.....	68	26	2,315	12,420	1,978	4,000	9,717	23,715	1,070	1,582	15,270
204	Grain mill products.....	14	4	714	3,922	520	875	2,727	8,675	(Z)	912	8,850
205	Bakery products.....	44	20	2,466	15,473	1,286	2,687	8,413	28,959	738	2,221	20,735
207	Candy and related products....	12	5	469	2,255	367	677	1,528	4,623	(Z)	414	3,451
208	Beverages.....	17	6	779	5,834	362	670	2,421	15,278	549	839	12,842
209	Miscellaneous foods and kindred products.....	27	11	791	4,268	499	973	2,302	11,091	(Z)	738	7,652
23	Apparel and related products....	90	33	2,383	9,445	2,015	3,568	6,581	16,343	(Z)	2,259	12,529
232	Men's and boys' furnishings....	11	9	1,003	4,046	845	1,520	2,935	7,492	(Z)	686	3,861
233	Women's and misses' outerwear..	22	10	513	1,722	447	697	1,243	2,985	(Z)	582	3,081
239	Fabricated textiles, n.e.c.....	42	8	625	2,807	502	975	1,727	4,326	(Z)	733	4,316
24	Lumber and wood products.....	369	61	8,809	44,160	7,937	14,218	37,722	69,807	7,378	8,748	61,411
241	Logging camps and contractors..	158	6	834	3,739	739	1,342	3,308	7,508	1,384	811	9,238
242	Sawmills and planing mills.....	102	30	4,532	22,093	4,141	7,129	19,243	32,367	3,195	4,644	29,017
243	Millwork and related products..	87	20	2,996	16,130	2,688	5,090	13,513	26,573	2,705	2,784	19,548
25	Furniture and fixtures.....	88	13	893	4,859	742	1,400	3,792	7,937	(Z)	1,004	7,061
251	Household furniture.....	57	10	674	3,494	561	1,018	2,682	5,877	(Z)	747	5,227
26	Paper and allied products.....	30	16	3,957	25,445	3,188	6,414	19,168	75,588	2,734	3,266	60,036
265	Paperboard containers and boxes.....	11	7	500	3,280	374	740	2,172	5,971	(Z)	574	5,482
27	Printing and publishing.....	253	38	4,461	28,001	2,640	4,614	16,612	47,150	3,080	4,116	36,906
271	Newspapers.....	48	12	2,512	15,688	1,255	2,078	8,282	26,861	2,184	2,359	21,396
275	Commercial printing.....	131	18	1,396	9,092	1,038	1,939	6,410	14,299	638	1,310	11,552
28	Chemicals and allied products....	79	19	1,095	6,617	611	1,188	3,177	18,622	606	1,145	17,365
285	Paints and allied products....	17	6	333	1,980	196	378	1,050	6,024	(Z)	263	4,416
30	Rubber and plastics products, n.e.c.....	28	5	277	1,609	211	400	1,075	3,551	(Z)	245	2,182
32	Stone, clay and glass products..	100	34	2,951	19,799	2,341	4,715	15,013	39,969	3,163	2,452	26,659
327	Concrete and plaster products..	70	26	2,006	13,855	1,551	3,101	10,304	25,268	2,445	1,510	15,953
33	Primary metal industries.....	37	15	2,074	14,218	1,673	3,310	10,621	25,138	1,543	2,197	18,250
332	Iron and steel foundries.....	10	6	416	2,671	373	733	2,201	4,180	(Z)	430	3,060
34	Fabricated metal products.....	190	48	4,648	31,660	3,643	7,009	23,102	55,801	1,859	5,277	51,323
344	Structural metal products.....	101	30	3,022	20,791	2,356	4,499	15,159	34,665	959	3,343	31,152
35	Machinery, except electrical....	192	42	4,087	27,956	3,009	5,921	19,410	45,377	2,055	3,263	31,509
353	Construction and like equipment.....	20	12	1,547	11,118	1,146	2,346	7,957	18,751	902	802	8,281
354	Metalworking machinery.....	14	1	368	2,833	276	574	2,138	4,942	(Z)	322	3,116
355	Special industry machinery.....	28	8	687	4,660	486	922	3,010	6,121	(Z)	585	5,705
359	Miscellaneous machinery.....	81	9	693	4,121	582	1,112	3,412	7,259	(Z)	672	5,662
36	Electrical machinery.....	54	16	2,101	14,395	1,247	2,475	6,375	24,164	897	1,247	9,234
37	Transportation equipment.....	114	29	70,696	541,008	33,171	68,718	214,244	883,541	21,461	67,716	610,516
39	Miscellaneous manufacturing....	97	12	887	4,834	673	1,261	3,330	7,695	(Z)	949	6,675
398	Miscellaneous manufactures....	47	8	507	3,226	376	695	2,231	4,507	(Z)	412	2,731
399												
190												
--	Administrative and auxiliary ³ ...	-	-	1,181	10,741	-	-	-	-	-	581	-

- Represents zero. n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand.

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

**POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE**

OFFICIAL BUSINESS



1963 CENSUS OF MANUFACTURES



MC63(P)-S49

Area series

WEST VIRGINIA

preliminary report

Value added by manufacturing in 1963 in the State of West Virginia amounted to \$1,834 million, an increase of 9 percent from 1962 and 45 percent from 1958. Of this total, \$781 million was contributed by the chemical industries and \$390 million by the primary metals industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	1,817	533	118,860	713,980	90,560	178,793	490,453	1,834,458	172,870	101	145
1962 ³	(NA)	(NA)	112,393	650,338	86,571	168,270	463,909	1,689,455	167,634	98	133
1961 ³	(NA)	(NA)	111,126	619,691	85,408	165,049	438,880	1,441,833	113,806	97	114
1960 ³	(NA)	(NA)	116,779	629,899	90,282	180,353	449,976	1,434,768	126,324	99	113
1959 ³	(NA)	(NA)	121,332	631,186	94,859	183,221	456,987	1,512,603	102,261	103	119
1958.....	1,899	519	117,828	586,038	90,390	173,129	411,007	1,268,842	171,937	100	100

(NA) Not available. ¹Revised.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

February 1965

U.S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

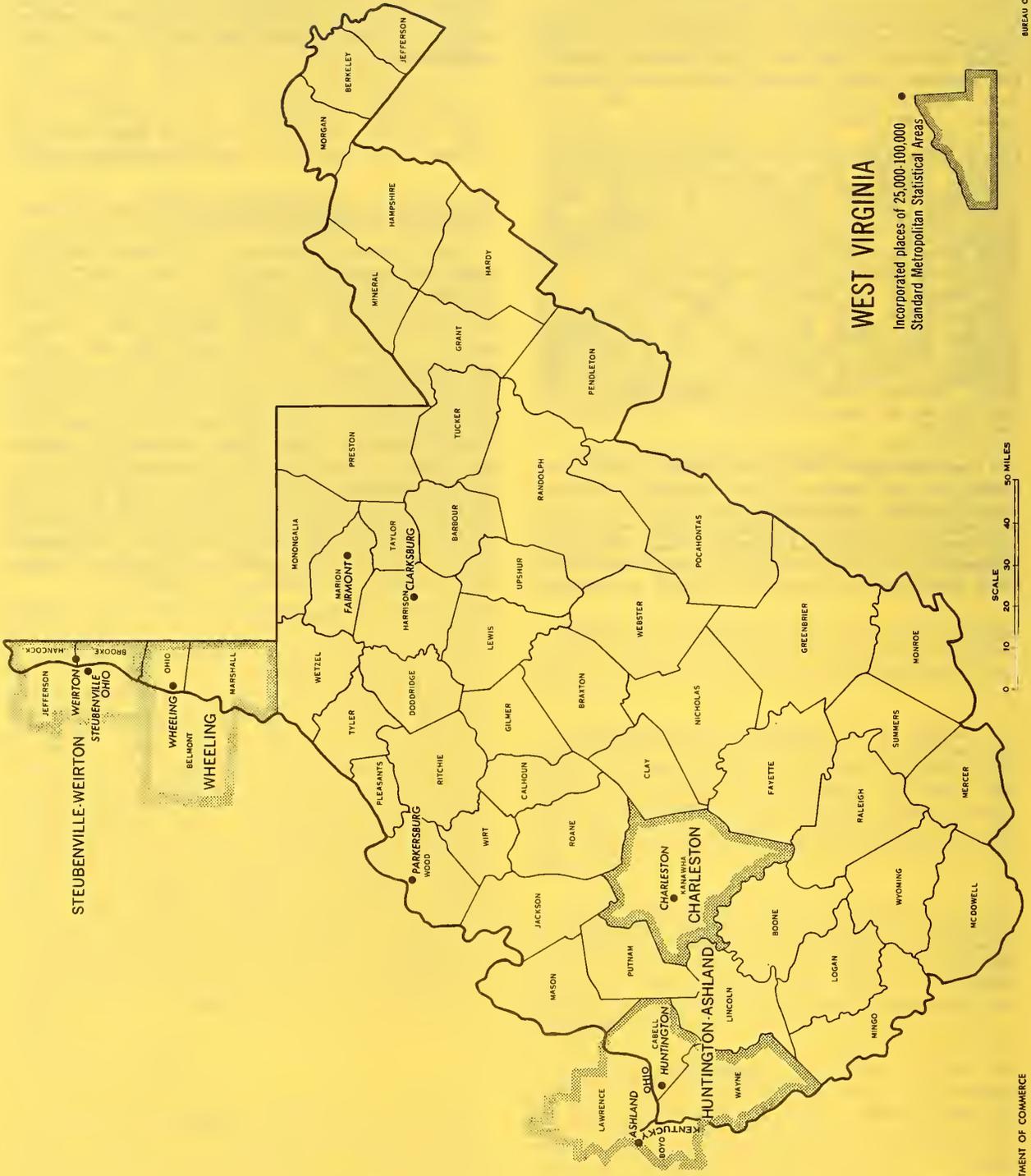
The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)



WEST VIRGINIA

Incorporated places of 25,000-100,000
Standard Metropolitan Statistical Areas



Table 2.--GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963							1958			
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employ-ees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
WEST VIRGINIA, TOTAL.....	1,817	533	118,860	718,980	90,560	178,793	490,453	1,854,458	172,870	117,828	1,268,842
STANDARD METROPOLITAN STATISTICAL AREAS											
Charleston ⁴	163	55	22,592	178,927	13,894	27,997	94,843	596,008	64,130	22,862	367,612
Huntington-Ashland ⁵	263	111	24,252	146,984	18,905	37,679	104,816	317,411	99,179	22,882	244,042
Portion in Ohio.....	44	19	4,134	25,178	3,386	6,722	19,673	71,116	(D)	4,317	50,423
Portion in West Virginia.....	180	76	13,531	75,627	10,720	21,631	53,509	149,481	(D)	12,336	113,764
Portion in Kentucky.....	39	16	6,587	46,179	4,799	9,326	31,634	96,814	(D)	6,161	79,855
Steuensville-Weirton ⁶	133	64	28,545	205,652	23,589	45,617	163,746	426,523	58,558	29,894	353,022
Portion in Ohio.....	67	29	10,848	78,096	9,110	17,854	64,329	141,492	43,321	11,089	124,088
Portion in West Virginia.....	66	35	17,697	127,556	14,479	27,763	99,417	285,031	15,237	18,805	228,934
Wheeling ⁷	185	81	15,701	93,394	11,689	22,463	62,792	190,707	24,904	17,240	150,340
Portion in Ohio.....	78	29	4,754	26,132	3,793	7,072	19,684	46,460	4,353	4,025	28,395
Portion in West Virginia.....	107	52	10,947	67,262	7,896	15,391	43,108	144,247	20,551	13,215	121,945
COUNTIES ¹											
Berkeley.....	39	21	3,882	16,246	3,294	6,543	12,493	71,543	2,396	3,614	28,080
Cabell.....	134	62	12,106	68,373	9,573	19,203	48,354	135,765	(D)	11,663	109,365
Greenbrier.....	57	6	897	3,007	701	1,491	2,280	4,581	(Z)	1,021	4,364
Hardy.....	22	5	447	1,396	410	755	1,205	1,645	(Z)	241	875
Harrison.....	75	28	5,884	33,285	4,794	9,512	26,398	62,310	3,946	6,233	53,082
Jefferson.....	25	12	1,105	4,747	878	1,946	3,297	19,629	(Z)	657	4,076
Kanawha.....	163	55	22,592	178,927	13,894	27,997	94,843	596,008	64,130	22,862	367,612
Lewis.....	25	5	1,130	3,865	1,067	1,864	3,379	5,804	(Z)	1,102	4,562
Lincoln.....	18	3	255	670	226	424	555	792	(Z)	205	703
Logan.....	25	8	578	2,380	413	888	1,609	3,815	(Z)	341	1,650
Marion.....	61	16	5,591	30,261	4,821	9,701	24,945	55,741	5,677	4,409	46,550
Marshall.....	31	18	5,252	33,205	4,077	7,973	23,638	91,537	18,741	5,703	67,036
Mason.....	20	9	1,638	7,031	1,214	2,160	5,045	15,870	2,198	1,019	5,598
Mercer.....	61	18	2,030	9,504	1,395	2,822	5,420	15,883	882	1,829	11,558
Mineral.....	18	5	405	1,384	362	760	1,102	2,924	(Z)	305	2,199
Mingo.....	24	6	473	1,719	364	674	1,148	3,627	(Z)	344	2,522
Monongalia.....	55	22	2,814	11,768	2,361	4,280	9,085	19,171	(Z)	2,917	15,159
Nicholas.....	53	6	631	1,919	540	1,114	1,607	3,159	(Z)	624	2,155
Ohio.....	76	34	5,695	34,057	3,819	7,418	19,476	52,710	1,810	7,512	34,909
Pocahontas.....	22	6	545	1,751	491	984	1,522	2,799	(Z)	679	3,625
Preston.....	43	5	664	2,311	576	1,098	1,946	4,638	(Z)	676	3,409
Putnam.....	14	5	1,384	8,536	1,055	2,196	6,226	26,722	1,405	2,000	32,852
Raleigh.....	43	12	1,130	4,148	829	1,619	2,666	6,671	(Z)	1,247	7,491
Randolph.....	67	11	1,023	3,503	814	1,623	2,508	6,905	(Z)	1,473	5,043
Ritchie.....	16	7	571	1,943	524	981	1,625	2,699	(Z)	410	1,236
Roane.....	15	4	781	2,550	657	1,231	1,910	3,970	(Z)	548	2,440
Tucker.....	13	5	489	1,832	436	890	1,595	3,241	(Z)	357	1,527
Tyler.....	14	3	598	3,498	495	1,008	2,589	20,496	822	347	3,494
Upshur.....	25	3	259	961	207	414	699	1,287	529	364	1,154
Wayne.....	46	14	1,425	7,254	1,147	2,428	5,155	13,716	(D)	473	4,199
Webster.....	28	4	290	691	246	426	571	1,252	(Z)	154	436
Wetzel.....	28	5	437	1,909	360	695	1,399	3,261	(Z)	690	7,606
Wood.....	86	34	9,826	59,978	7,251	14,664	39,116	160,584	19,501	8,339	92,472
Wyoming.....	23	5	299	923	269	489	767	1,191	(Z)	341	1,330

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

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.

²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

³Includes expenditures for plants under construction but not in operation.

⁴The Charleston Standard Metropolitan Statistical Area consists of Kanawha County, W. Va.

⁵The Huntington-Ashland Standard Metropolitan Statistical Area consists of Cabell and Wayne Counties, W. Va., Boyd County, Ky.; and Lawrence County, Ohio.

⁶The Steuensville-Weirton Standard Metropolitan Statistical Area consists of Jefferson County, Ohio; and Brooke and Hancock Counties, W. Va.

⁷The Wheeling Standard Metropolitan Statistical Area consists of Ohio and Marshall Counties, W. Va.; and Belmont County, Ohio.

1963 CENSUS OF MANUFACTURES

Table 3.--GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new* (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	ALL INDUSTRIES, TOTAL ²	1,817	533	118,860	718,980	90,560	178,795	490,453	1,834,458	172,870	117,828	[†] 1,268,842
20	Food and kindred products....	242	95	7,279	33,880	3,881	8,426	15,300	71,572	3,500	8,629	68,756
202	Dairies.....	44	27	1,875	9,365	751	1,608	3,348	925	2,502	2,502	24,257
205	Bakery products.....	45	26	2,279	11,870	1,187	2,741	5,333	22,816	800	2,846	22,231
208	Beverages.....	65	21	1,331	6,132	532	1,089	1,897	11,942	854	1,310	9,611
22	Textile mill products.....	6	4	1,512	4,886	1,288	2,484	3,942	5,374	(Z)	1,953	9,410
23	Apparel and related products..	38	28	4,366	12,064	3,921	7,247	10,187	17,702	(Z)	3,879	12,290
232	Men's and boys' furnishings.	7	6	581	1,466	559	1,007	1,349	2,391	(Z)	631	1,778
233	Women's and misses' outerwear.....	9	9	1,806	4,816	1,603	2,979	4,047	8,172	(Z)	1,398	5,076
24	Lumber and wood products.....	641	82	6,343	18,111	5,625	10,841	15,415	29,809	4,772	6,975	21,915
241	Logging camps and contractors.....	208	2	780	1,644	700	1,320	1,477	3,625	1,400	801	2,097
242	Sawmills and planing mills..	385	69	4,672	13,352	4,141	7,999	11,561	20,976	3,122	5,161	15,034
243	Millwork and related products.....	12	5	422	1,627	373	776	1,265	2,683	(Z)	485	2,591
25	Furniture and fixtures.....	44	15	1,070	3,769	923	1,741	2,779	6,314	(Z)	1,119	5,651
251	Household furniture.....	26	11	814	2,568	730	1,319	1,982	4,045	(Z)	945	4,440
26	Paper and allied products....	21	14	1,512	7,088	1,282	2,656	5,330	12,387	550	1,410	9,877
264	Paper and paperboard products.....	6	4	540	2,393	464	880	1,913	3,818	(Z)	574	3,497
265	Paperboard containers and boxes.....	9	6	684	3,142	565	1,105	2,209	5,451	(Z)	625	4,626
27	Printing and publishing.....	188	24	3,318	15,123	1,933	3,694	8,995	36,769	1,160	3,677	25,057
271	Newspapers.....	85	15	2,358	10,648	1,221	2,315	5,795	18,881	(Z)	2,727	19,391
275	Commercial printing.....	90	7	856	4,001	630	1,222	2,818	16,963	666	808	4,800
28	Chemicals and allied products.	64	34	22,454	166,735	16,445	33,214	112,288	780,820	97,721	22,864	[†] 451,751
281	Basic chemicals.....	34	19	14,807	114,436	10,874	21,870	78,721	605,120	75,386	17,713	[†] 373,555
282	Fibers, plastics, rubbers...	9	9	6,862	47,870	4,988	10,188	30,745	159,829	21,923	4,415	66,760
29	Petroleum and coal products...	26	7	590	3,218	489	971	2,641	7,521	(Z)	709	6,663
31	Leather and leather products..	8	6	842	3,132	787	1,559	2,851	4,830	(Z)	819	5,073
32	Stone, clay and glass products	180	89	20,390	108,647	17,967	34,829	90,339	219,571	11,054	21,590	156,607
321	Flat glass.....	5	5	3,051	22,726	2,607	5,201	19,107	35,032	3,246	2,851	27,904
323	Products of purchased glass.	18	7	386	1,281	311	682	1,072	2,739	(Z)	404	1,813
325	Structural clay products....	11	9	1,023	5,019	906	1,743	4,135	7,918	635	1,261	7,030
326	Pottery and related products	15	9	2,727	11,806	2,489	4,488	9,716	14,871	65	1,472	14,550
327	Concrete and plaster products.....	71	17	1,119	4,974	821	1,684	3,380	10,767	1,044	1,237	10,693
33	Primary metal industries.....	42	30	21,796	167,735	18,283	35,829	133,500	390,295	37,950	21,662	323,825
331	Steel rolling and finishing.	13	11	14,815	116,859	12,840	25,059	98,095	272,571	15,345	16,253	242,957
332	Iron and steel foundries....	12	9	720	3,693	621	1,152	2,966	7,452	(Z)	747	6,560
34	Fabricated metal products....	85	42	7,131	36,320	5,895	11,532	27,840	77,954	2,230	7,701	60,010
342	Cutlery, hand tools, hard-ware.....	5	4	1,201	6,845	1,008	1,979	5,449	15,297	(Z)	1,433	12,515
344	Structural metal products...	44	14	1,767	9,834	1,391	2,716	7,195	21,666	529	1,970	15,349
349	Fabricated metal products, n.e.c.....	14	10	1,539	8,107	1,291	2,591	6,231	21,977	688	1,268	12,879
35	Machinery, except electrical..	137	31	3,964	21,978	3,058	5,910	15,751	36,073	1,692	3,751	28,852
353	Construction and like equipment.....	38	11	1,528	8,381	1,054	2,056	4,998	13,772	615	1,277	10,588
359	Miscellaneous machinery....	68	9	627	3,353	510	1,002	2,569	5,633	(Z)	667	4,830
36	Electrical machinery.....	19	12	4,389	24,705	3,701	7,650	19,038	60,224	4,681	3,516	53,224
37	Transportation equipment....	9	4	2,300	12,463	1,774	3,373	9,585	19,802	1,448	1,602	12,071
38	Instruments and related products.....	19	6	763	2,350	632	1,329	1,836	8,000	(Z)	355	1,653
--	Administrative and auxiliary ³ .	-	-	5,662	60,216	-	-	-	-	-	3,397	-

n.e.c. Not elsewhere classified. (Z) Less than \$500 thousand. [†] Revised.¹ Includes expenditures for plants under construction but not in operation.² The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.³ In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.--GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC63(P)-S50

preliminary
report

Area series

WISCONSIN

Value added by manufacturing in 1963 in the State of Wisconsin amounted to \$5,344 million, an increase of 5 percent from 1962 and 35 percent from 1958. Of this total, \$981 million was contributed by the nonelectrical machinery industries and \$769 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963

(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	7,817	2,403	462,154	2,782,478	338,324	687,789	1,823,930	5,344,282	280,059	105	135
1962 ³	(NA)	(NA)	469,684	2,715,096	344,301	698,632	1,785,894	5,100,216	255,302	107	129
1961 ³	(NA)	(NA)	454,162	2,501,355	328,116	653,895	1,613,209	4,574,424	228,604	103	116
1960 ³	(NA)	(NA)	466,912	2,556,593	340,991	689,265	1,677,183	4,733,397	258,978	106	120
1959 ³	(NA)	(NA)	467,807	2,492,777	345,471	702,068	1,657,912	4,635,189	206,950	106	117
1958.....	7,793	2,331	439,309	2,208,324	319,992	634,110	1,440,406	3,959,537	203,747	100	100

(NA) Not available.

¹Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

²Includes expenditures for both plants in operation and for plants under construction but not in operation.

³The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

July 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary

BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Wisconsin, total.....	7,817	2,403	462,154	2,782,478	338,324	687,789	1,823,930	5,344,282	280,059	439,309	3,959,537
STANDARD METROPOLITAN STATISTICAL AREAS											
Duluth-Superior ⁴	359	82	11,501	60,352	8,807	16,454	42,186	129,163	3,634	11,375	101,811
Portion in Wisconsin.....	54	16	1,292	7,723	903	1,794	5,065	18,633	744	1,343	12,981
Portion in Minnesota.....	305	66	10,209	52,629	7,904	14,660	37,121	110,530	2,890	10,032	88,830
Green Bay ⁵	274	85	13,508	81,499	10,565	22,803	58,158	186,795	25,132	12,228	121,617
Kenosha ⁶	118	41	22,628	151,374	18,826	37,540	119,546	343,121	15,569	15,529	163,464
Madison ⁷	292	75	13,264	81,869	8,923	17,702	51,453	140,170	6,927	12,367	100,642
Milwaukee ⁸	2,355	850	194,756	1,277,435	133,207	266,791	783,695	2,224,346	96,787	189,436	1,764,511
Racine ⁹	318	109	22,202	147,234	14,679	30,065	85,266	281,265	11,066	21,273	209,816
COUNTIES ¹											
Ashland.....	68	12	1,071	4,294	946	1,955	3,677	9,740	909	915	6,022
Barron.....	81	24	2,262	8,485	1,933	3,829	6,631	19,749	895	1,686	11,722
Bayfield.....	40	3	463	2,266	400	792	1,730	4,613	(Z)	481	3,507
Brown.....	274	85	13,508	81,499	10,565	22,803	58,158	186,795	25,132	12,228	121,617
Buffalo.....	24	4	256	767	197	361	588	2,968	(Z)	261	2,802
Burnett.....	31	5	437	1,658	375	780	1,351	2,426	(Z)	275	1,389
Calumet.....	69	18	2,945	14,946	2,459	5,104	11,165	31,629	1,907	2,746	21,563
Chippewa.....	79	21	2,425	11,322	1,895	3,816	8,320	21,868	755	3,424	30,130
Clark.....	94	14	1,107	4,553	892	1,860	3,454	11,978	723	1,072	6,837
Columbia.....	69	24	2,543	10,367	2,193	4,451	8,163	21,404	899	2,408	16,329
Crawford.....	51	7	742	3,334	627	1,298	2,704	6,433	(Z)	589	5,025
Dane.....	292	75	13,264	81,869	8,923	17,702	51,453	140,170	6,927	12,367	100,642
Dodge.....	131	48	6,444	31,798	5,281	10,469	23,819	62,779	4,616	6,294	41,095
Door.....	38	11	1,230	5,164	1,066	1,963	4,096	7,861	(Z)	1,459	8,728
Douglas.....	54	16	1,292	7,723	903	1,794	5,065	18,633	744	1,343	12,981
Dunn.....	33	6	543	2,285	433	848	1,713	4,954	(Z)	668	3,846
Eau Claire.....	69	28	4,650	30,012	3,266	6,767	20,895	52,880	2,394	5,540	57,279
Fond du Lac.....	138	57	8,512	44,527	6,317	12,741	27,992	92,573	4,995	8,205	63,305
Forrest.....	29	2	484	1,686	392	663	1,017	2,740	(Z)	549	3,262
Grant.....	86	4	540	1,729	423	801	1,293	4,610	(Z)	635	4,569
Green.....	70	11	918	3,642	765	1,697	2,793	12,016	(Z)	1,101	10,919
Green Lake.....	47	18	1,601	6,397	1,344	2,698	4,562	12,538	551	1,333	7,852
Iowa.....	48	4	333	1,006	297	582	867	3,497	(Z)	349	3,248
Jackson.....	27	4	357	1,214	298	620	933	2,298	(Z)	235	1,204
Jefferson.....	116	45	7,158	38,026	5,281	10,530	24,860	75,259	3,472	6,810	61,209
Juneau.....	28	9	950	3,322	806	1,591	2,636	8,782	511	656	5,541
Kenosha.....	118	41	22,628	151,374	18,826	37,540	119,546	343,121	15,569	15,529	163,464
Kewaunee.....	46	13	1,964	8,289	1,670	3,441	6,746	13,583	999	1,644	8,903
La Crosse.....	114	33	7,613	43,297	5,026	9,878	25,182	82,586	3,183	8,579	74,961
Langlade.....	47	15	1,168	4,424	995	1,950	3,434	8,679	(Z)	984	5,544
Lincoln.....	64	21	2,998	13,447	2,530	5,389	10,486	32,411	2,414	2,918	23,553
Manitowoc.....	174	56	11,897	61,385	9,171	19,204	42,264	110,294	9,139	11,115	94,401
Marathon.....	187	57	8,925	47,342	6,930	14,114	33,045	88,415	5,305	8,647	64,900
Marinette.....	107	24	4,551	25,016	3,639	7,432	18,803	50,831	3,427	4,325	44,292
Marquette.....	21	7	361	1,342	302	532	960	2,292	(Z)	325	1,291
Milwaukee.....	1,858	689	176,219	1,169,791	119,110	238,045	710,453	2,016,917	87,589	175,778	1,639,153
Monroe.....	43	8	1,256	4,732	1,065	2,225	3,579	9,952	701	727	4,503
Oneida.....	47	14	1,931	11,399	1,380	2,796	7,189	24,467	960	2,126	19,163
Outagamie.....	167	65	12,328	72,240	9,543	20,452	50,356	134,764	13,738	11,878	117,458
Ozaukee.....	116	51	5,684	30,611	4,407	9,078	20,708	62,486	2,406	4,221	41,991
Pierce.....	24	5	325	1,081	280	571	913	2,180	(Z)	338	2,066
Polk.....	45	10	1,550	5,302	1,279	2,391	3,878	13,642	787	745	5,613
Portage.....	68	17	2,382	11,754	1,832	3,761	7,989	22,274	1,730	2,174	17,278
Price.....	43	7	923	4,634	787	1,706	3,692	9,052	695	840	5,321
Racine.....	318	109	22,202	147,234	14,679	30,065	85,266	281,265	11,066	21,273	209,816

See footnotes at end of table.

Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958—Continued

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963								1958		
	Establishments, number		All employees ²		Production workers			Value added by manufacture	Capital expenditures, new ³	All employees, number ²	Value added by manufacture
	Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COUNTIES ¹ —Continued											
Richland.....	46	6	460	1,460	363	658	1,078	2,987	(Z)	349	3,034
Rock.....	133	46	17,107	116,966	13,624	29,699	87,986	358,995	8,766	16,922	187,960
Rusk.....	34	7	761	3,190	659	1,452	2,537	5,645	(Z)	734	5,168
St. Croix.....	38	10	1,102	5,860	817	1,824	3,661	13,978	1,218	1,061	5,881
Sauk.....	80	22	2,168	8,745	1,721	3,480	6,062	23,378	672	1,986	14,117
Sheboygan.....	228	90	14,414	75,412	11,794	24,335	54,997	142,532	8,794	13,256	104,567
Taylor.....	40	7	777	3,199	684	1,455	2,637	4,973	(Z)	848	4,829
Trempealeau.....	46	12	952	3,434	832	1,613	2,876	7,396	941	864	4,882
Vernon.....	38	5	403	1,129	316	579	777	3,330	(Z)	196	1,672
Vilas.....	29	6	347	1,593	254	510	839	2,295	(Z)	418	2,186
Walworth.....	118	30	4,818	23,656	3,975	7,738	17,430	49,568	2,825	3,761	32,595
Washington.....	99	36	6,004	34,573	4,391	8,710	21,145	76,847	3,500	5,668	56,915
Waukesha.....	381	110	12,853	77,033	9,690	19,668	52,534	144,943	6,792	9,437	83,367
Waupaca.....	100	24	2,662	11,261	2,118	4,209	7,968	21,225	1,238	2,960	23,179
Waushara.....	20	6	551	2,068	489	936	1,589	3,760	(Z)	453	2,847
Winnebago.....	248	107	20,389	125,587	14,009	29,639	74,975	215,804	14,528	18,860	160,743
Wood.....	105	33	8,971	50,513	7,167	14,715	36,744	93,623	6,898	9,173	78,722

(Z) Less than \$500 thousand.

¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for both plants in operation and for plants under construction but not in operation.⁴The Duluth-Superior Standard Metropolitan Statistical Area consists of St. Louis County, Minn., and Douglas County, Wis.⁵The Green Bay Standard Metropolitan Statistical Area is coextensive with Brown County, Wis.⁶The Kenosha Standard Metropolitan Statistical Area is coextensive with Kenosha County, Wis.⁷The Madison Standard Metropolitan Statistical Area is coextensive with Dane County, Wis.⁸The Milwaukee Standard Metropolitan Statistical Area consists of Milwaukee, Ozaukee, and Waukesha Counties, Wis.⁹The Racine Standard Metropolitan Statistical Area is coextensive with Racine County, Wis.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	7,817	2,403	462,154	2,782,478	338,324	687,789	1,823,930	5,344,282	280,059	439,309	3,959,537
20	Food and kindred products.....	1,821	518	58,969	315,106	41,676	85,401	201,644	769,381	49,803	64,096	624,690
201	Meat products.....	162	59	9,766	61,950	7,696	15,550	45,570	102,579	5,317	11,202	88,146
202	Dairies.....	1,032	202	17,918	87,170	12,258	25,439	54,824	244,592	17,585	19,487	185,395
203	Canned and frozen foods.....	146	101	8,310	30,218	7,431	15,262	23,262	70,557	6,156	8,910	56,431
204	Grain mill products.....	82	17	1,736	10,757	1,040	2,430	5,804	36,869	2,288	1,631	20,315
207	Candy and related products...	22	10	1,121	5,356	849	1,703	3,242	12,773	630	1,440	12,165
208	Beverages.....	180	58	11,428	79,959	7,091	14,437	47,137	218,590	14,950	12,830	192,747
209	Miscellaneous foods and kindred products.....	83	17	1,815	9,182	1,213	2,429	5,424	28,878	1,091	1,419	19,403
22	Textile mill products.....	71	42	6,523	28,230	5,423	10,632	18,901	58,795	1,145	7,159	49,283
225	Knitting mills.....	33	24	4,404	17,700	3,655	7,017	11,268	36,458	(Z)	4,933	34,216
229	Miscellaneous textile goods...	20	9	1,033	5,599	869	1,772	4,251	13,056	(Z)	817	8,203
23	Apparel and related products...	150	67	7,122	24,880	5,848	11,337	17,565	40,699	795	7,055	40,811
232	Men's and boys' furnishings....	16	14	1,441	4,726	1,241	2,271	3,441	7,539	(Z)	1,176	5,551
233	Women's and misses' outerwear.	33	21	2,806	9,869	2,137	4,391	6,628	15,749	(Z)	2,665	16,467
238	Miscellaneous apparel.....	231	9	1,098	3,933	956	1,745	2,936	6,516	(Z)	1,179	6,473
239	Fabricated textiles, n.e.c.....	58	9	690	2,907	553	1,102	1,875	4,990	(Z)	887	5,618
24	Lumber and wood products.....	879	138	16,191	64,246	14,039	28,984	52,101	102,131	6,060	16,235	85,603
241	Logging camps and contractors.	330	5	1,401	3,391	1,244	2,261	3,028	6,160	1,155	1,078	3,962
242	Sawmills and planing mills....	259	31	2,880	10,180	2,523	4,875	8,276	15,384	1,280	3,099	15,943
243	Millwork and related products.	160	60	8,993	39,890	7,695	16,411	32,038	62,416	2,720	9,509	52,950
244	Wooden containers.....	40	15	1,061	4,103	942	2,133	3,048	6,141	(Z)	1,300	5,729
249	Miscellaneous wood products...	90	27	1,856	6,682	1,635	3,304	5,339	12,030	(D)	1,249	7,019
25	Furniture and fixtures.....	172	51	6,469	30,202	5,372	10,756	21,685	49,083	1,494	8,590	57,878
253	Public building furniture....	23	12	1,521	8,069	1,196	2,452	5,227	14,257	(Z)	705	4,322
254	Partitions and fixtures.....	46	5	541	2,581	445	937	2,018	4,134	(Z)	736	4,003

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ¹ (\$1,000)	All employ-ees, number	Value added by manufacture (\$1,000)
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
26	Paper and allied products.....	199	144	36,228	230,641	29,468	63,514	174,880	498,868	57,874	36,279	402,698
264	Paper and paperboard products	87	54	9,868	57,551	8,115	16,903	42,931	150,692	9,282	10,094	110,379
265	Paperboard containers and boxes.....	63	42	6,375	37,262	4,880	10,203	25,621	66,674	4,892	6,267	56,023
27	Printing and publishing.....	886	162	22,003	127,252	13,579	26,511	76,103	223,094	9,089	20,687	165,821
271	Newspapers.....	248	51	7,420	35,924	3,195	6,068	17,621	66,957	1,761	6,682	53,361
272	Periodicals.....	60	7	682	3,510	193	331	990	10,711	(Z)	741	5,617
273	Books.....	22	5	2,796	19,320	1,837	3,685	10,950	41,915	1,378	2,611	22,041
275	Commercial printing.....	445	75	9,135	58,178	6,856	13,601	39,566	86,743	4,897	8,649	69,079
278	Bookbinding and related work.	17	6	747	3,669	572	1,059	2,276	5,335	(Z)	850	5,629
279	Printing trades services.....	60	10	609	3,905	456	863	2,988	5,302	(Z)	679	5,920
28	Chemicals and allied products..	252	63	6,105	38,907	3,724	7,630	19,965	162,994	7,010	6,281	105,321
281	Basic chemicals.....	29	6	403	2,473	225	452	1,248	10,558	(Z)	294	4,080
282	Fibers, plastics, rubbers....	15	7	712	4,986	530	1,222	2,958	12,380	1,318	419	4,769
284	Cleaning and toilet goods....	73	12	1,558	10,566	1,052	2,039	5,892	86,443	3,339	1,562	51,536
285	Paints and allied products....	36	12	1,184	7,597	479	1,008	2,555	20,076	562	1,128	13,317
289	Miscellaneous chemical products.....	38	9	1,017	6,432	755	1,571	4,270	16,243	(Z)	1,619	17,353
29	Petroleum and coal products....	33	11	611	3,819	395	793	2,324	11,746	683	702	10,861
299	Petroleum and coal products, n.e.c.....	16	5	251	1,485	156	301	804	6,230	(Z)	418	7,322
30	Rubber and plastics products, n.e.c.....	131	56	7,039	39,005	5,708	11,376	28,367	71,509	2,880	7,147	72,430
307	Plastics products, n.e.c.....	101	40	3,640	17,596	2,943	5,926	12,012	32,178	1,889	2,814	23,812
31	Leather and leather products...	129	89	15,592	70,092	13,061	25,359	51,444	123,961	1,934	16,924	108,367
311	Leather tanning and finishing...	27	22	3,967	23,920	3,341	7,018	18,012	43,791	1,144	4,349	35,201
314	Footwear, except rubber.....	45	41	8,778	35,393	7,328	13,698	25,849	59,835	628	10,006	57,579
315	Leather gloves.....	20	14	1,155	3,780	1,048	1,968	3,059	4,554	(Z)	832	3,547
32	Stone, clay and glass products.	440	85	7,849	44,919	5,939	12,140	30,757	93,746	6,462	6,322	64,687
323	Products of purchased glass..	15	4	261	1,327	221	462	1,018	2,435	(Z)	183	1,066
327	Concrete and plaster products.	318	59	3,556	21,374	2,569	5,507	13,468	46,321	4,814	3,133	33,636
328	Out stone and stone products.	35	7	428	2,473	361	748	1,987	3,903	(Z)	575	3,611
329	Nonmetallic mineral products.	47	9	1,263	6,554	1,001	1,903	4,525	19,461	603	1,014	12,203
33	Primary metal industries.....	197	122	28,711	185,505	23,261	46,745	141,564	287,581	16,867	25,181	213,947
331	Steel rolling and finishing...	9	8	2,379	15,914	1,915	3,960	12,426	31,185	2,318	2,871	36,450
332	Iron and steel foundries....	81	62	14,404	89,699	11,637	23,606	67,768	126,683	6,849	10,935	75,584
335	Nonferrous rolling and drawing.....	6	5	1,859	12,350	1,638	3,371	10,282	28,412	1,352	1,702	23,021
336	Nonferrous foundries.....	67	31	3,635	21,794	3,094	6,336	16,508	32,659	1,776	2,933	20,372
339	Primary metal industries, n.e.c.....	25	14	6,336	45,088	4,892	9,334	34,121	66,280	4,459	6,681	57,678
34	Fabricated metal products.....	618	223	35,464	209,192	27,343	56,504	142,935	373,900	21,651	23,752	311,207
341	Metal cems.....	9	7	2,006	14,425	1,768	3,628	12,150	27,919	2,217	2,025	33,466
342	Outlery, hand tools, hardware	45	19	3,088	17,412	2,553	5,132	12,672	45,605	1,582	2,633	28,474
343	Plumbing and heating, except electric.....	26	17	4,459	26,450	3,387	6,992	18,498	46,053	1,480	4,786	46,170
344	Structural metal products....	217	75	10,154	64,726	7,062	14,658	39,607	98,318	4,046	9,342	78,543
345	Screw machine products.....	68	17	1,701	10,382	1,341	3,091	7,248	18,202	964	1,345	12,004
346	Metal stampings.....	86	44	9,704	51,546	7,912	16,243	36,447	99,537	8,665	9,159	83,277
347	Metal services, n.e.c.....	94	19	1,362	6,712	1,165	2,305	5,097	10,511	540	879	5,509
348	Fabricated wire products, n.e.c.....	26	8	858	4,473	706	1,484	3,298	7,268	704	1,062	11,317
349	Fabricated metal products, n.e.c.....	47	17	2,132	13,066	1,449	2,971	7,918	20,487	1,453	1,518	12,447
35	Machinery, except electrical...	1,131	344	84,329	556,487	60,316	122,968	363,900	981,227	39,419	81,459	766,320
351	Engines and turbines.....	22	20	17,224	107,934	13,205	26,444	77,124	203,533	6,570	18,218	183,373
352	Farm machinery and equipment..	90	39	12,474	78,988	8,607	17,628	50,966	140,857	5,590	14,305	131,662
353	Construction and like equipment.....	88	49	15,625	106,977	10,899	22,587	67,888	197,702	5,417	15,376	135,329
354	Metalworking machinery.....	278	68	10,421	75,715	7,278	15,026	49,018	105,425	6,235	7,809	71,099
355	Special industry machinery...	112	50	9,063	61,358	3,934	14,006	43,162	104,295	5,244	8,195	68,461
356	General industrial machinery.	184	61	9,877	70,224	6,766	13,945	42,724	124,032	5,470	9,808	102,412
358	Service industry machines....	55	17	5,407	33,115	3,292	6,510	17,506	64,503	2,163	5,075	53,120
36	Electrical machinery.....	211	122	49,227	312,785	33,241	65,040	178,363	592,727	24,698	145,721	143,476
361	Electric distribution products	27	16	4,142	28,079	2,678	5,204	14,822	45,199	1,912	3,353	36,996
362	Electric industrial apparatus	56	35	20,648	124,003	15,116	29,403	87,492	271,976	12,275	20,654	187,308
363	Household appliances.....	30	16	6,039	35,843	4,379	8,705	22,829	76,658	3,093	6,800	65,386
364	Lighting and wiring devices..	27	9	1,358	7,767	852	1,758	4,187	11,329	(Z)	1,348	8,446
367	Electronic components.....	31	18	2,711	14,130	2,082	3,782	8,310	23,259	888	2,403	13,905

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958—Continued
(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
37	Transportation equipment.....	135	66	44,007	299,416	38,180	79,031	249,539	733,739	26,219	32,681	357,798
371	Motor vehicles and equipment..	54	30	38,850	272,263	33,993	70,664	229,347	694,147	24,598	26,325	306,724
373	Ship and boat building.....	47	14	2,312	11,852	1,968	3,887	9,444	17,079	509	2,934	21,699
38	Instruments and related products	74	22	6,120	34,955	4,142	8,306	21,038	71,879	2,950	15,226	145,498
382	Mechanical measuring devices..	19	8	2,757	17,495	1,718	3,448	9,802	38,714	873	2,595	23,238
39	Miscellaneous manufacturing, including ordnance.....	280	77	9,528	46,127	7,573	14,702	30,771	97,035	3,024	8,158	62,479
393	Musical instruments and parts.	10	5	613	3,189	507	1,022	2,359	7,194	(Z)	519	3,737
394	Toys and sporting goods.....	82	29	2,733	9,658	2,389	4,343	7,212	18,743	793	2,060	12,334
398												
399	Miscellaneous manufactures ³ ...	146	36	4,138	20,465	3,330	6,756	14,404	42,948	1,169	3,665	28,085
190												
--	Administrative and auxiliary ⁴ ...	-	-	14,025	120,572	-	-	-	-	-	10,574	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958
(See text for explanation of column captions)

Code	Industry group	1963							1958			
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
MILWAUKEE SMSA (See footnotes at end of table 2 for SMSA description)												
	All industries, total ²	2,355	850	194,756	1,277,435	133,207	266,791	783,695	2,224,346	96,787	189,436	1,764,511
20	Food and kindred products.....	218	112	19,974	126,380	12,667	25,488	73,701	311,173	16,099	23,498	277,728
201	Meat products.....	49	24	2,692	17,643	2,098	4,087	12,672	32,100	(Z)	4,358	36,607
202	Dairies.....	28	14	2,047	13,681	817	1,645	4,857	36,352	1,373	2,395	29,267
205	Bakery products.....	37	25	3,863	16,628	2,244	4,393	9,267	27,069	872	3,976	27,786
207	Candy and related products....	12	9	1,028	5,067	775	1,550	3,027	12,190	595	1,272	10,322
208	Beverages.....	37	19	8,379	63,068	5,290	10,692	37,755	174,532	11,426	9,799	154,178
209	Miscellaneous foods and kindred products.....	30	8	705	3,936	479	937	2,451	16,075	(Z)	597	10,834
22	Textile mill products.....	25	13	1,363	5,421	1,184	2,375	4,203	10,517	(Z)	1,363	8,910
225	Knitting mills.....	11	8	1,045	3,972	904	1,785	3,059	7,149	(Z)	1,022	6,495
23	Apparel and related products....	74	30	3,281	12,254	2,478	5,053	7,803	19,516	(Z)	3,447	21,676
232	Men's and boys' furnishings...	5	4	357	1,159	320	586	883	2,033	(Z)	315	1,332
233	Women's and misses' outerwear.	18	10	1,963	7,535	1,365	2,936	4,595	11,886	(Z)	2,012	14,177
239	Fabricated textiles, n.e.c.....	29	7	387	1,637	319	633	1,039	2,724	(Z)	467	2,686

See footnotes at end of table.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958—Continued

(See text for explanation of column captions)

Code	Industry group	1963								1958		
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new ¹	All employees, number	Value added by manufacture
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
24	Lumber and wood products.....	71	12	1,007	5,370	767	1,660	3,978	8,054	(Z)	(D)	(D)
243	Millwork and related products.	50	7	625	3,741	437	866	2,646	5,404	(Z)	(D)	(D)
25	Furniture and fixtures.....	6	10	1,131	6,333	870	1,725	3,955	11,553	(Z)	1,308	9,980
253	Public building furniture.....	7	4	592	3,736	445	865	2,123	6,803	(Z)	266	1,563
26	Paper and allied products.....	56	30	4,235	24,964	3,190	6,777	16,097	40,446	1,857	4,456	37,810
265	Paperboard containers and boxes.....	25	13	2,211	13,374	1,671	3,567	8,923	21,435	1,122	2,738	22,157
27	Printing and publishing.....	295	69	10,685	62,902	6,091	11,655	35,759	99,811	3,966	10,681	86,865
272	Periodicals.....	24	5	473	2,468	126	225	716	3,655	(Z)	275	2,438
275	Commercial printing.....	180	39	5,026	34,688	3,600	7,025	22,419	46,507	2,960	5,473	44,811
278	Bookbinding and related work..	10	5	680	3,362	509	946	2,009	4,991	(Z)	736	5,035
279	Printing trades services.....	38	6	371	2,377	263	500	1,732	3,092	(Z)	430	3,815
28	Chemicals and allied products...	116	33	3,089	19,915	1,561	3,220	7,937	52,622	1,704	3,139	37,700
281	Basic chemicals.....	16	5	293	1,779	164	324	895	8,133	(Z)	180	2,383
283	Drugs.....	15	6	601	3,532	254	497	1,142	9,622	(Z)	695	8,663
284	Cleaning and toilet goods.....	40	6	627	3,862	348	662	1,496	7,887	(Z)	494	4,174
285	Paints and allied products....	14	8	893	6,188	356	761	1,986	16,636	(Z)	834	10,310
289	Miscellaneous chemical products.....	18	5	493	3,169	359	803	2,015	7,508	(Z)	799	10,258
30	Rubber and plastics products, n.e.c.....	53	24	1,448	7,126	1,215	2,348	4,905	13,773	1,053	1,319	11,378
307	Plastics products, n.e.c.....	40	19	1,185	5,604	1,023	1,970	4,095	9,968	792	1,087	9,228
31	Leather and leather products....	59	35	5,833	29,584	4,712	9,156	20,308	52,009	986	6,587	50,627
311	Leather tanning and finishing...	21	16	2,622	15,450	2,220	4,627	11,479	31,030	865	2,844	24,405
314	Footwear, except rubber.....	13	11	2,666	12,119	2,018	3,590	7,267	17,785	(Z)	3,193	23,691
32	Stone, clay and glass products..	128	31	2,665	16,628	1,746	3,292	10,014	29,450	2,138	1,889	22,079
327	Concrete and plaster products.	73	21	1,127	7,838	763	1,575	4,704	16,932	1,385	1,194	14,634
329	Nonmetallic mineral products..	22	3	339	1,944	243	442	1,027	3,902	(Z)	243	2,192
33	Primary metal industries.....	104	67	19,090	127,555	15,158	30,168	96,212	183,216	12,567	16,922	143,046
331	Steel rolling and finishing...	5	4	1,581	10,690	1,290	2,633	8,427	18,995	1,930	2,009	27,724
332	Iron and steel foundries.....	35	30	9,266	59,719	7,377	14,841	44,676	78,078	5,180	(D)	(D)
336	Nonferrous foundries.....	37	18	2,124	13,225	1,750	3,632	9,734	19,177	991	1,842	13,171
339	Primary metal industries, n.e.c.....	19	11	5,909	42,532	4,558	8,722	32,313	61,854	4,326	6,304	54,980
34	Fabricated metal products.....	283	110	14,977	98,286	11,407	23,553	66,373	164,093	7,314	14,908	148,123
342	Outletry, hand tools, hardware.	16	8	1,972	11,675	1,713	3,443	8,710	25,157	891	1,599	15,174
343	Plumbing and heating, except electric.....	12	8	1,325	7,849	947	1,819	4,977	16,502	(Z)	1,941	21,577
344	Structural metal products....	94	40	5,633	39,501	3,746	7,801	22,754	57,171	2,138	5,709	51,370
345	Screw machine products.....	32	10	850	5,871	666	1,581	4,048	9,554	(Z)	708	6,341
346	Metal stampings.....	40	19	1,681	10,800	1,354	3,893	7,785	18,556	1,068	(D)	(D)
347	Metal services, n.e.c.....	46	12	759	4,048	647	1,235	3,112	6,324	(Z)	621	3,986
349	Fabricated metal products, n.e.c.....	24	6	634	3,735	480	975	2,591	5,903	(Z)	422	2,886
35	Machinery, except electrical....	527	159	45,048	307,672	31,625	63,896	197,436	542,940	21,180	47,467	459,923
351	Engines and turbines.....	9	9	12,138	78,184	9,207	18,081	55,442	147,098	3,831	(D)	(D)
352	Farm machinery and equipment..	10	4	3,624	22,926	2,059	4,082	12,461	47,570	1,647	6,226	57,660
353	Construction and like equipment.....	54	32	12,558	87,012	8,481	17,131	53,007	153,571	4,870	12,428	103,880
354	Metalworking machinery.....	162	41	5,900	45,476	4,363	9,127	30,988	63,176	4,312	4,198	36,120
355	Special industry machinery....	37	17	2,065	14,498	1,286	2,727	8,004	25,505	869	2,269	23,890
356	General industrial machinery..	97	31	5,901	43,125	4,051	8,239	26,105	76,143	3,693	6,155	63,919
358	Service industry machines.....	21	6	1,292	7,863	919	1,941	5,074	14,824	583	1,133	12,857
36	Electrical machinery.....	90	54	32,790	230,553	20,646	40,590	124,810	437,940	19,455	50,515	504,960
361	Electric distribution products	14	7	2,694	20,936	1,597	3,159	10,490	32,330	1,213	2,574	31,066
362	Electric industrial apparatus.	27	18	16,179	108,592	12,094	23,617	73,370	229,680	11,139	(D)	(D)
364	Lighting and wiring devices...	12	6	725	4,548	470	998	2,488	8,316	(Z)	714	5,272
37	Transportation equipment.....	30	15	15,181	103,886	13,399	26,949	88,411	173,908	5,150	10,903	88,883
38	Instruments and related products	34	10	2,797	17,527	1,770	3,499	10,017	37,517	819	2,930	24,985
39	Miscellaneous manufacturing, including ordnance.....	110	33	3,179	15,786	2,582	5,124	11,122	30,413	(Z)	2,018	14,780
394	Toys and sporting goods.....	27	8	547	2,103	461	862	1,495	4,073	(Z)	295	1,887
398	Miscellaneous manufactures ³ ...	64	24	2,507	13,153	2,037	4,091	9,268	25,541	542	1,611	12,272
399	Miscellaneous manufactures ³ ...	64	24	2,507	13,153	2,037	4,091	9,268	25,541	542	1,611	12,272
190	Administrative and auxiliary ⁴ ...	-	-	6,767	58,098	-	-	-	-	-	4,457	-

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

¹Includes expenditures for both plants in operation and for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or, (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³Includes data for privately owned and/or operated establishments in Major Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded.

⁴In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume I, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233

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1963 CENSUS OF MANUFACTURES



MC63(P)-551

preliminary report

Area series

WYOMING

Value added by manufacturing in 1963 in the State of Wyoming amounted to \$83 million, an increase of 8 percent from 1962 and 33 percent from 1958. Of this total, \$37 million was contributed by the petroleum and coal products industries and \$17 million by the food and kindred products industries, the two leading industry groups in the State.

This report presents preliminary results from the 1963 Census of Manufactures for the State, its standard metropolitan statistical areas (SMSA) (if any) and its counties. Historical comparisons are included for the State as a whole as well as 1958 figures on employment and value added for the smaller areas. Figures are provided for industry groups within the State and for the SMSA's with 40,000 or more employees.

The figures shown in this report have been subjected only to a preliminary review, and must be regarded as tentative approximations of the final census figures. No adjustments have been made in the value figures for changes in price level.

The 1963 Census of Manufactures is the 27th such census of the United States since 1809. For 1963, it was conducted jointly with the censuses of business (wholesale, retail, and services) and mineral industries. Separate censuses of manufactures and business were conducted in Puerto Rico. Present legislation (Title 13 of the United States Code) provides for a census of manufactures every 5 years, and, as recently amended, to cover years ending in "2" and "7." Thus, the next census will

Table 1.--GENERAL STATISTICS FOR THE STATE: 1958-1963
(See text for explanation of column captions)

Year	Establishments, number		All employees ¹		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new ² (\$1,000)	Index of change (1958 = 100)	
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			All employees, number	Value added by manufacture
1963.....	345	74	r 6,913	r 37,919	4,831	9,552	25,317	82,978	14,189	107	133
1962.....	(NA)	(NA)	r 6,716	r 36,652	4,786	9,152	22,757	76,525	(4,230)	104	122
1961.....	(NA)	(NA)	r 7,077	r 37,000	5,117	9,815	23,775	69,839	10,477	110	112
1960.....	(NA)	(NA)	r 6,740	r 33,662	5,021	9,834	23,384	72,662	11,383	104	116
1959.....	(NA)	(NA)	r 6,633	r 33,276	4,991	9,798	23,499	71,555	4,286	103	114
1958.....	329	57	r 6,452	r 31,703	4,699	9,052	22,245	62,558	6,985	100	100

(NA) Not available. ^r Revised.

¹ Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)

² Includes expenditures for plants under construction but not in operation.

³ The data are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parenthesis may be of limited reliability since they either have associated standard errors exceeding 15 percent or are not consistent with related data.

May 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
BUREAU OF THE CENSUS



be conducted in 1968 covering manufacturing activity in 1967. Title 13 also authorizes an annual sample survey of manufacturing establishments in intercensal years. Accordingly, for the years 1959 through 1962, figures comparable with those shown in this publication are available for States and divisions.

ESTABLISHMENTS (PLANTS)

In the census of manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location at which such industrial operations are performed; for example, a factory, mill, or plant. Businesses with no employees are excluded from the scope of the census. Of the approximately 310,000 manufacturing establishments covered in the 1963 census, most are operated by single-establishment companies. A single report was obtained from such companies. Firms operating more than one establishment were required to submit a report for each separate location. Also, companies engaged in distinctly different lines of activity at one location submitted separate reports for each activity if the company records permitted such a separation, and if the separate activities were economically significant.

CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARY UNITS

In the 1954, 1958, and 1963 censuses, respondents were asked to file separate reports for any central administrative offices or auxiliary units which were: (1) at different locations from the establishments served or, (2) at the same location as one of these establishments, but were not operated as an integral part thereof and served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories serving the plants or central management of the company. For 1959-1962 employment and payrolls in central offices and auxiliaries were estimated to be the same as in 1958.

EXPLANATION OF TERMS

All employees, number.--This item includes all production and related workers, force-account construction workers, and all nonproduction personnel of manufacturing establishments. The 1963 figures are an average of reported employment totals for the payroll periods ended nearest the 15th of March, May, August, and November. (For highly seasonal industries, an average employment derived from 12 mid-month pay periods will be included in the final reports for the census.)

Payroll.--This total includes all forms of compensation (salaries, wages, commissions, bonuses, vacation pay, and other remuneration) paid during the year to all employees of the establishment. Payroll is reported before deductions for Social Security, income tax, group insurance, union dues, etc.

Production workers, number.--This number includes all workers (up to the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivery), maintenance, repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), record keeping, and other services closely associated with these production operations; it excludes supervisory employees above the working foreman level, force-account construction workers, and all other nonproduction personnel of manufacturing establishments.

Production workers, man-hours.--This total includes all "plant man-hours" of production and related workers. It consists of all man-hours worked or paid for in 1963, except hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. The figure includes actual overtime hours, not straight-time equivalent hours.

Production workers, wages.--This item consists of that portion of the payroll (as defined above) paid to production workers of manufacturing establishments.

Value added by manufacture.--This measure is derived for each manufacturing establishment by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work, from the value of shipments (including resales) and adjusting for the net change in finished goods work-in-process inventory.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Capital expenditures, new.--This figure includes, for all manufacturing plants in operation and under construction in 1963: Expenditures for new structures and additions (including major alterations, capitalized repairs, and improvements) to the manufacturing plant, whether on contract or by the plant's own work force; new machinery and new equipment; and capitalized repairs and improvements to existing machinery and equipment. Excluded from the new expenditures total are those expenditures for "used" plant and equipment acquired from others, and expenditures for land.

STANDARD METROPOLITAN STATISTICAL AREAS

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one or more whole counties. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas of the U.S. Bureau of the Budget for general purpose use throughout the Federal Government in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's on a city and town basis because towns rather than counties are regarded as the significant unit in this region of the country.

The requirement that each SMSA consists of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of

smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis.

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

1963 CENSUS OF MANUFACTURES PUBLICATION PROGRAM

The general statistics for each industry, shown by geographic region and State, as well as figures on individual products of the industry, will appear in the Preliminary Industry Reports, Series MC63(P)-20A through MC63(P)-39D. These industry reports are scheduled for publication during the first half of 1965. More detailed figures for each industry will appear in the final Industry Reports which will be published during the summer of 1965. Preliminary reports for States, standard metropolitan statistical areas, and counties, Series MC63(P)-S1 through MC63(P)-S51, will be released shortly with final State reports scheduled for publication in late 1965 and early 1966. (Order forms which list these reports and their prices may be obtained from the U.S. Department of Commerce field offices or from the Bureau of the Census, Washington, D.C. 20233.)

WYOMING

Incorporated places of 25,000-100,000 •

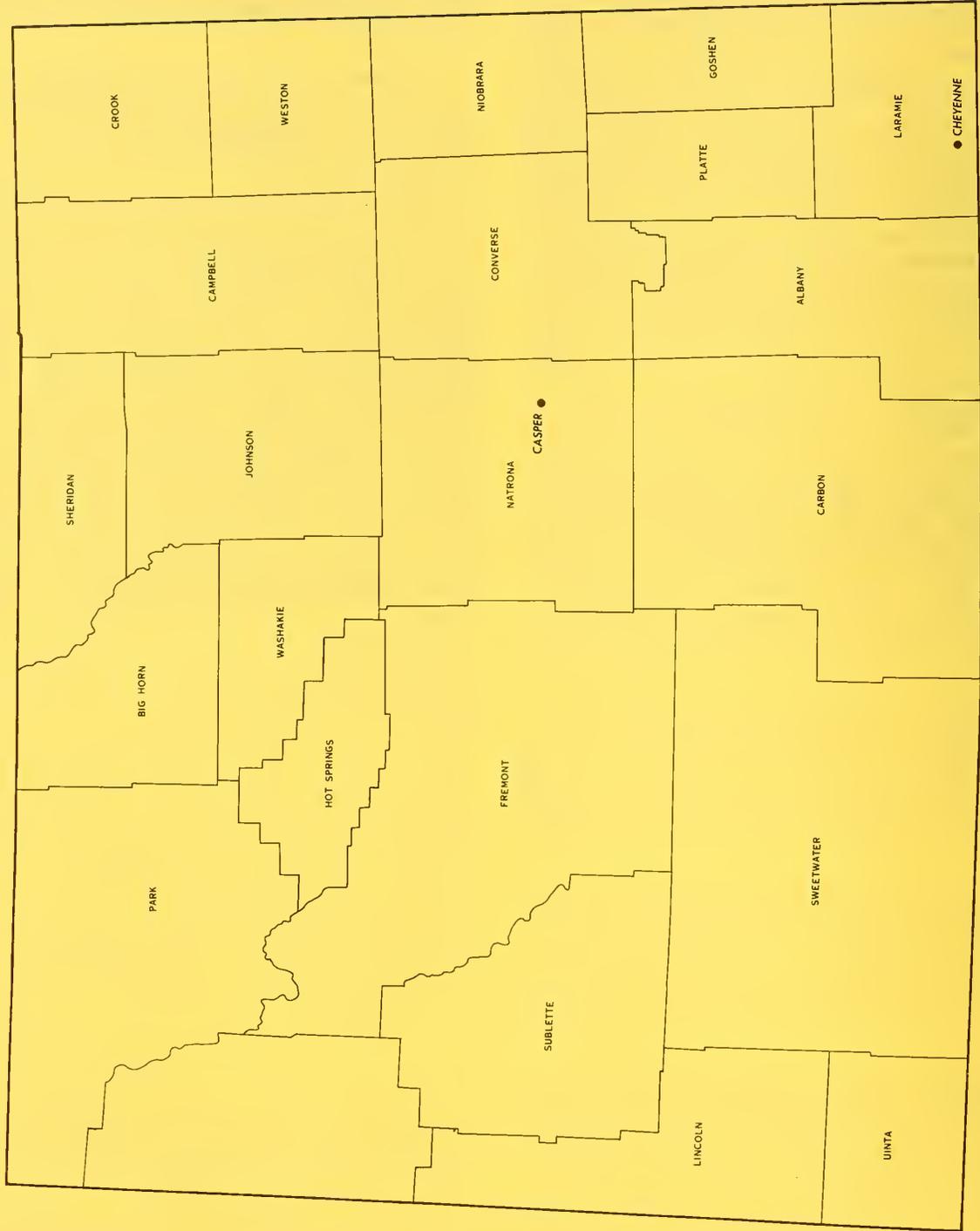


Table 2.—GENERAL STATISTICS FOR THE STATE, STANDARD METROPOLITAN STATISTICAL AREAS, AND COUNTIES: 1963 AND 1958

(See text for explanation of column captions)

State, standard metropolitan statistical areas, and counties ¹	1963									1958	
	Establishments, number		All employees ²		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new ³ (\$1,000)	All employees, number ²	Value added by manufacture (\$1,000)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
WYOMING, TOTAL.....	345	74	6,913	37,919	4,831	9,552	25,317	82,978	14,189	^r 6,452	62,558
STANDARD METROPOLITAN STATISTICAL AREAS (None in this State)											
COUNTIES ¹											
Albany.....	19	9	639	3,121	569	1,112	2,686	5,436	(Z)	591	4,823
Fremont.....	28	5	327	1,509	263	530	1,203	4,056	(Z)	198	1,517
Laramie.....	38	12	1,323	7,538	669	1,293	4,141	13,428	813	1,045	10,549
Lincoln.....	17	4	336	1,107	273	490	851	1,874	(Z)	209	2,043
Natrona.....	49	11	1,456	9,720	1,020	2,012	6,486	23,923	810	1,789	16,591
Park.....	22	4	422	2,783	268	581	1,518	5,351	(Z)	314	1,767
Sheridan.....	19	6	355	1,757	202	411	815	2,706	(Z)	291	2,327
Washakie.....	17	5	298	1,639	238	526	1,271	3,449	(Z)	222	2,615

(Z) Less than \$500 thousand. ^rRevised.¹Some counties were withheld from publication in order to (a) avoid disclosing figures for individual companies or (b) permit further checking of the figures for the smaller counties. Additional detail will appear in the final report for this State.²Includes employment and payroll at central administrative offices and auxiliary units. (For a definition of these units see text.)³Includes expenditures for plants under construction but not in operation.

1963 CENSUS OF MANUFACTURES

Table 3.—GENERAL STATISTICS FOR THE STATE, BY SELECTED INDUSTRY GROUPS: 1963 AND 1958

(See text for explanation of column captions)

Code	Industry group	1963									1958	
		Establishments, number		All employees		Production workers			Value added by manufacture	Capital expenditures, new*	All employ-ees, number	Value added by manufacture
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All industries, total ²	345	74	6,913	37,919	4,831	9,552	25,317	82,978	14,189	^r 6,452	62,558
20	Food and kindred products.....	77	23	1,537	6,952	1,055	2,165	4,433	17,204	1,079	1,417	12,487
202	Dairies.....	19	9	353	1,685	188	372	718	4,145	(Z)	399	3,011
24	Lumber and wood products.....	99	16	1,152	4,341	1,038	1,984	3,854	7,856	974	850	4,612
242	Sawmills and planing mills....	51	12	755	2,887	688	1,337	2,613	5,477	663	667	3,531
27	Printing and publishing.....	51	12	707	3,336	392	790	1,987	6,177	(Z)	620	4,648
271	Newspapers.....	33	8	554	2,613	292	590	1,503	4,745	(Z)	481	3,851
29	Petroleum and coal products.....	13	9	2,131	15,569	1,327	2,520	9,620	36,824	11,126	2,421	31,931
32	Stone, clay and glass products..	47	8	675	3,937	563	1,195	3,194	9,389	518	545	5,181
--	Administrative and auxiliary ³ ...	-	-	(D)	(D)	-	-	-	-	-	97	-

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than \$500 thousand. ^rRevised.

¹Includes expenditures for plants under construction but not in operation.

²The "All industries, total" includes figures for industry groups which have been withheld from publication in order to (a) avoid disclosing figures for individual companies in this or associated industries or areas or (b) permit further checking of figures for smaller industry groups. Additional detail will appear in the final report for the State.

³In addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns ordinarily reported separately for central administrative offices or auxiliary units which service the manufacturing establishments of a company (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.). A separate report was usually obtained for each central office or auxiliary unit if it was located at a different general location from the manufacturing establishment(s) served or if it serviced two or more manufacturing establishments and was not operated as an integral part of the establishment at the same location. Employment and payroll of central administrative offices and auxiliaries are included in the totals for the area.

Table 4.—GENERAL STATISTICS FOR STANDARD METROPOLITAN STATISTICAL AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1963 AND 1958

(This State contained no standard metropolitan statistical areas with 40,000 or more manufacturing employees)

PUBLICATION PROGRAM 1963 CENSUSES OF MANUFACTURES AND MINERAL INDUSTRIES

Results of the 1963 Censuses of Manufactures and Mineral Industries will be issued initially in preliminary reports which will furnish summary data. These reports will be superseded by more detailed final reports. An outline of the publication program is shown below.

PRELIMINARY REPORTS

Summary Series

Manufactures (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. General statistics will also be presented for industries grouped according to market categories—durable and nondurable goods industries. A second report will provide general statistics without industry detail for regions, States, and large standard metropolitan statistical areas.

Mineral Industries (2 reports). One report will present general statistics at the U.S. level for each 4-digit industry and 2- and 3-digit industry group. A second report will provide general statistics by 2-digit industry group for regions and States.

Industry Series

Manufactures (about 370 reports). Separate reports for virtually all of the 430 manufacturing industries will give industry totals for general statistics for the United States and for regions and States. A product table in each report will give the quantity and value of shipments of the products classified in the industry for the United States.

Mineral Industries (about 45 reports). Separate reports for industries or for groups of industries for all of the 50 mineral industries will present general statistics for the United States and for regions and States. A product table will give the quantity and value of shipments of the products classified in the industry for the United States and for regions and States.

Area Series

Manufactures (51 reports). A separate report for each State and the District of Columbia will present general statistics for the State and for the larger standard metropolitan statistical areas within the State by 2-digit and selected 3-digit industries, and for most individual counties on an "all manufacturing" basis.

Subject Series

Manufactures (2 reports). One report will provide data on the number of establishments, employment, and

value added by manufacturing for each 4-digit industry according to employment size of the establishment in each industry. A separate report will provide statistics on inventories for each 4-digit industry on a national basis; State data on inventories will also be provided.

Mineral Industries (one report). This report will provide number of establishments, employment, and value added in mining for each 4-digit industry according to employment size of the establishment in each industry.

FINAL REPORTS

All preliminary reports will be superseded by comparable final reports. After separate final reports have been issued, they will be assembled and reissued in cloth bindings as follows:

Manufactures

Volume 1, Summary Statistics

Volume II, Industry Statistics
Part 1, Major Groups 20-28
Part 2, Major Groups 29-39

Volume III, Area Statistics

Mineral Industries

Volume I, General Summary and Industry Statistics

Volume II, Area Statistics

1963 CENSUS OF MANUFACTURES IN PUERTO RICO

A separate 1963 Census of Manufactures was conducted jointly by the Puerto Rico Planning Board, Government of the Commonwealth of Puerto Rico, and the U.S. Bureau of the Census. A report of the findings will include statistics of manufacturing activity by industry and geographic area on value added by manufacture, employment, payrolls, inventories, capital expenditures, etc.

Additional Information and Order Forms

A more detailed description of the publication program of the 1963 censuses, including tentative publication dates, is available free of charge. Separate announcement and order forms for the preliminary reports of the censuses of manufactures and mineral industries are also available free of charge. Requests for order forms should specify which report series is desired. All requests should be addressed to the Publications Distribution Section, Bureau of the Census, Washington, D.C., 20233.

**U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON, D.C. 20233**

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OFFICIAL BUSINESS

1963 CENSUS OF MANUFACTURES



MC 63(P)-PR

PUERTO RICO

General Statistics for Industry Groups and Industries

preliminary report

This report presents the preliminary results from the 1963 Census of Manufactures of Puerto Rico. Statistics are shown for 265 of the approximately 430 Standard Industrial Classification (SIC) industries as well as for 119 industry groups and the 20 broad major groups within manufacturing.

Figures in this report have been subjected only to a preliminary review and should be regarded as approximations of the final census figures to be released later. Some industry totals have been withheld for additional checking of figures.

The 1963 Census of Manufactures of Puerto Rico is the ninth such canvass of manufacturing activities in the Island during this century; the first census covered the year 1909. For 1963, the Census of Manufactures was conducted concurrently with the Census of Business (Wholesale, Retail, and Services) and represents a joint project of the Planning Board, Commonwealth of Puerto Rico, and the Bureau of the Census, U.S. Department of Commerce. This Census was authorized by an Act of Congress of the United States (13 U.S.C. 131 and 224) and an Act of the Legislature of the Commonwealth of Puerto Rico (Act No. 11 of March 27, 1950).

Este informe presenta los resultados preliminares del Censo de Manufacturas de Puerto Rico para 1963. Se muestran estadísticas para 265 de un total aproximado de 430 industrias individuales incluidas en la Clasificación Industrial Uniforme (CIU) así como para 119 grupos industriales y los 20 grupos principales dentro de la manufactura.

Como las cifras mostradas en este informe han sido objeto de una revisión preliminar solamente, éstas deben ser consideradas como aproximaciones a las cifras finales censales que serán publicadas en una fecha futura. Algunos totales de industrias han sido omitidos hasta tanto se efectúe una revisión adicional de las cifras.

El Censo de Manufacturas de Puerto Rico para 1963 es la novena encuesta general de actividades manufactureras en la Isla durante este siglo; el primer censo cubrió el año 1909. Para el 1963, el Censo de Manufacturas fue tomado a la misma vez que el Censo de Comercio (al por mayor, al detal y servicios) y representa un proyecto conjunto de la Junta de Planificación del Gobierno del Estado Libre Asociado de Puerto Rico, y el Negociado del Censo del Departamento de Comercio de los Estados Unidos. El Censo de 1963 fue autorizado por una Ley del Congreso de los Estados Unidos (13 C.E.U. 131 y 224) y por una Ley de la Legislatura del Estado Libre Asociado de Puerto Rico (Ley Núm. 11 del 27 de marzo de 1950).

Table 1.--SUMMARY FOR SELECTED YEARS
(See Appendix for explanation of column captions)

Year	Estab- lishments (number)	Pro- priators and partners (number)	All employees		Production workers		Home worker wages (\$1,000)	Value of shipments (\$1,000)	Value added by manufac- ture (\$1,000)	Capital expend- itures (\$1,000)
			Average for year (number)	Salaries and wages (\$1,000)	Average for year (number)	Wages (\$1,000)				
1963.....	2,246	1,082	99,517	242,433	84,849	180,225	1,351	1,485,795	624,179	88,688
1958.....	2,042	1,181	71,188	132,169	60,047	95,320	2,049	774,351	292,142	31,892
1954.....	1,938	1,298	69,022	83,263	60,336	59,289	6,034	(NA)	199,706	(NA)

(NA) Not available.

May 1965

U. S. DEPARTMENT OF COMMERCE, John T. Connor, Secretary
BUREAU OF THE CENSUS

PUERTO RICO PLANNING BOARD, Rafael Garcia Santiago, Chairman
BUREAU OF ECONOMIC AND SOCIAL ANALYSIS, Miguel Echenique, Director

INDUSTRY CLASSIFICATION

In the Census of Manufactures, figures are collected from each manufacturing establishment engaged in the mechanical or chemical transformation of materials into new products. A manufacturing establishment usually consists of a single physical location where such industrial operations are performed; for example, a factory or mill. In the SIC system, each establishment is classified in a particular industry on the basis of the value of the principal products it produces. As the statistics (employment, payroll, value of shipments, etc.) are reported for each establishment as a whole, the aggregates of such figures for an industry reflect not only the primary production activities of the establishments classified in that industry, but also their manufacture of secondary products and receipts for their other activities (contract work on materials owned by others, repair work, etc.). (See "Value of Shipments," in the Appendix.)

The SIC system combines the approximately 430 4-digit industries into 150 3-digit industry groups, which are, in turn, combined into 20 major 2-digit industry groups.

Statistics in this report and the final one for the 1963 Census of Manufactures of Puerto Rico are presented in accord with the 1957 edition of the Standard Industrial Classification Manual published by the United States Bureau of the Budget, as amended through December 31, 1963.

ESTABLISHMENTS

A separate report has been obtained for each establishment which had one or more employees during 1963. Of the approximately 2,250 manufacturing establishments covered in the 1963 Puerto Rico Census, most are operated by single-establishment companies. A single report was received from such companies. Firms operating more than one establishment had to submit a report for each separate plant location. Also, the relatively few companies engaged in distinctly different lines of activity at one location were required to submit a separate report for each activity, if the company records permitted such a separation, and if the separate activities were substantial in size.

CLASIFICACION INDUSTRIAL

En el Censos de Manufacturas se recolectan cifras de cada establecimiento manufacturero dedicado a la transformación mecánica o química de materiales en productos nuevos. Un establecimiento manufacturero usualmente consiste de un sólo local físico donde tales operaciones industriales se ejecutan; por ejemplo, una fábrica, o un molino. De acuerdo con el sistema de CIU, cada establecimiento se clasifica dentro de una industria en particular a base del valor del producto principal que elabora. Como las estadísticas (empleo, nómina, valor de las ventas, etc.) se informan para cada establecimiento en general, el conjunto de tales cifras para una industria refleja no sólo las actividades de producción primarias de los establecimientos clasificados en esa industria, sino también su manufactura de productos secundarios y los ingresos por otras actividades (trabajo por contrato con los materiales suplidos por otros, trabajo de reparaciones, etc.) (Vea "Valor de las Ventas" en el Apéndice.)

El sistema CIU combina aproximadamente 430 industrias con números de clave a cuatro dígitos dentro de 150 grupos de industrias con números de clave a tres dígitos, que son a su vez, combinados dentro de 20 grupos de industrias principales con números de clave a dos dígitos.

Las estadísticas en este informe y en la publicación final del Censo de Manufacturas de 1963 de Puerto Rico están basadas en la edición de 1957 del Manual de Clasificación Industrial Uniforme publicada por el Negociado del Presupuesto de los Estados Unidos según enmendado al 31 de diciembre de 1963.

ESTABLECIMIENTOS (FABRICAS)

En el Censo de Manufacturas se obtuvo un informe separado para cada establecimiento que tuvo uno o más empleados durante el 1963. De los aproximadamente 2,250 establecimientos manufactureros cubiertos por el Censo de 1963, la mayoría eran operados por compañías con un sólo establecimiento. Se obtuvo un sólo informe de tales compañías. Las firmas que operaron más de un establecimiento se les requirió que sometieran un informe por separado para cada uno. También a las relativamente pocas compañías dedicadas diferentes líneas de actividad en un local se les requirió que sometieran un informe por separado de cada actividad, si los registros de la compañía permitían tal separación y si las actividades separadas fueron suficientemente grandes.

Table 2.--INDUSTRY GROUPS AND INDUSTRIES: 1963 AND 1958

(See Appendix for explanation of column captions)

Code	Industry group and industry	1963									1958			
		Estab- lish- ments (number)	Pro- pri- etors and part- ners (number)	All employees		Production workers		Home worker wages (\$1,000)	Value of shipments (\$1,000)	Value added by manu- facture (\$1,000)	Capital expen- ditures (\$1,000)	Estab- lish- ments (number)	All em- ployees, average for year (number)	Value added by manu- facture (\$1,000)
				Average for year (number)	Sal- aries and wages (\$1,000)	Average for year (number)	Wages (\$1,000)							
	All industries, total.....	2,246	1,082	99,517	242,433	84,849	180,225	1,351	1,483,793	624,179	88,688	2,042	71,188	292,142
20	Food and kindred products.....	471	313	21,141	57,337	15,417	34,758	26	553,627	189,680	31,871	510	17,082	95,617
21	Tobacco products.....	84	4	6,833	11,444	6,627	10,481	-	62,457	26,818	137	142	4,509	10,119
22	Textile mill products.....	53	2	4,970	10,654	4,471	9,054	-	50,404	20,546	2,847	55	4,444	15,201
23	Apparel and related products.....	386	118	26,678	50,670	24,882	44,287	1,183	179,220	90,722	3,188	347	17,998	44,206
24	Lumber and wood products.....	75	58	607	1,414	560	1,158	1	5,674	2,462	80	49	466	1,263
25	Furniture and fixtures.....	205	137	3,691	8,240	3,138	6,081	32	28,796	15,463	1,143	204	2,861	8,720
26	Paper and allied products.....	27	1	1,286	4,587	1,019	3,138	-	21,406	8,360	1,783	111	1,635	3,902
27	Printing and publishing.....	133	88	1,885	6,543	1,132	3,613	(D)	18,203	13,547	829	110	1,516	6,762
28	Chemicals and allied products....	80	11	2,337	8,172	1,658	4,810	-	80,696	46,151	4,042	170	1,483	19,207
29	Petroleum and coal products.....	9	-	1,362	(D)	1,103	(D)	-	(D)	(D)	(D)	8	(D)	(D)
30	Rubber and plastics products, n.e.c.....	24	-	1,160	3,072	1,054	2,395	-	13,279	6,293	445	114	11,022	14,036
31	Leather and leather products....	56	1	5,997	10,959	5,740	8,854	3	42,701	20,682	1,011	132	12,620	16,671
32	Stone, clay and glass products....	229	140	5,300	16,159	4,008	10,467	(D)	69,233	37,710	6,090	171	4,131	19,251
33	Primary metal industries.....	15	3	664	2,274	563	1,517	-	11,855	5,788	1,304	14	426	1,908
34	Fabricated metal products.....	175	98	2,611	8,656	2,021	5,402	8	1,929	16,736	1,289	118	2,007	10,287
35	Machinery, except electrical.....	33	5	952	3,348	808	2,458	-	10,906	7,640	576	26	703	4,153
36	Electrical machinery.....	73	-	5,572	16,734	4,950	13,643	-	90,290	50,866	3,109	49	3,049	21,837
37	Transportation equipment.....	7	1	325	(D)	3	291	(D)	(D)	(D)	(D)	3	(D)	(D)
38	Instruments and related products.	14	-	1,857	5,272	1,720	4,524	-	21,971	12,070	525	15	1,143	3,926
39	Miscellaneous manufacturing, including ordnance.....	97	57	4,289	8,227	3,958	6,637	37	34,616	16,510	750	194	13,964	11,760
20	Food and kindred products....	471	313	21,141	57,337	15,417	34,758	26	553,627	189,680	31,871	510	17,082	95,617
201	Meat products.....	5	-	171	340	121	182	-	4,095	855	(D)	2	(D)	(D)
2013	Meat processing plants.....	4	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2015	Poultry dressing plants.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
202	Dairies.....	27	8	1,849	5,998	618	1,760	-	53,225	13,412	1,373	30	1,357	6,975
2022	Natural and process cheese.....	4	4	(D)	(D)	(D)	(D)	-	(D)	(D)	-	7	36	280
2023	Condensed and evaporated milk....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2024	Ice cream and frozen desserts....	10	4	213	792	130	421	-	3,776	2,160	(D)	9	203	1,083
2026	Fluid milk.....	12	-	1,567	5,049	437	1,241	-	48,043	10,540	1,240	14	1,118	5,612
203	Canned and frozen foods.....	43	16	3,288	7,998	2,962	6,490	-	62,417	19,969	6,460	38	1,339	5,799
2031	Canned and cured seafoods.....	4	-	1,924	5,161	1,743	4,410	-	40,888	13,576	(D)	1	(D)	(D)
2032	Canned specialties.....	1	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2033	Canned fruits and vegetables.....	28	10	1,283	2,728	1,139	1,975	-	20,839	6,148	(D)	25	913	3,084
2035	Pickles, sauces, salad dressings....	8	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	8	(D)	(D)
2037	Frozen fruits and vegetables.....	2	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	47	83
204	Grain mills.....	8	-	580	2,369	404	1,418	-	59,380	8,224	(D)	5	(D)	(D)
2041	Flour mills.....	-	-	-	-	-	-	-	-	-	(D)	2	(D)	(D)
2042	Prepared animal feeds.....	5	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	(D)	(D)
2044	Rice milling.....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
205	Bakery products.....	223	198	2,483	5,277	2,102	4,077	(D)	25,347	10,866	430	270	2,483	7,288
2051	Bread and related products.....	212	191	1,950	3,926	1,660	3,139	(D)	18,384	7,616	302	263	2,157	5,251
2052	Biscuit, crackers and cookies....	11	7	533	1,350	442	938	-	7,163	3,250	128	7	326	2,037
206	Sugar.....	30	10	7,580	19,638	6,130	13,563	-	195,824	56,234	12,650	35	7,568	37,439
2061	Raw cane sugar.....	26	10	6,966	18,184	5,580	12,354	-	150,971	50,125	12,029	31	7,108	33,604
2062	Cane sugar refining.....	4	-	614	1,454	550	1,209	-	44,853	6,109	621	4	460	3,835
207	Candy and related products.....	20	13	433	846	347	543	-	4,964	2,517	(D)	16	326	1,144
2071	Confectionery products.....	17	11	348	644	272	383	-	3,880	2,005	(D)	13	(D)	(D)
2072	Chocolate and cocoa products.....	1	2	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
2073	Chewing gum.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
208	Beverages.....	43	16	3,938	12,958	2,098	5,640	(D)	121,404	71,846	8,858	51	3,292	33,089
2082	Malt liquors.....	3	-	1,365	(D)	768	(D)	-	(D)	(D)	(D)	4	1,119	17,688
2084	Wines and brandy.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	107	295
2085	Distilled liquor except brandy....	12	1	1,286	4,024	870	2,032	-	54,037	35,030	2,080	14	1,089	9,271
2086	Bottled and canned soft drinks...	23	13	1,248	(D)	423	(D)	(D)	(D)	(D)	462	23	947	5,766
2087	Flavorings.....	4	2	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	6	30	69
209	Miscellaneous foods and kindred products.....	72	52	819	1,912	635	1,084	13	26,772	5,757	1,268	63	608	3,276
2094	Animal and marine fats and oils..	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2095	Roasted coffee.....	33	23	296	850	199	306	(D)	19,904	2,745	(D)	38	281	2,451
2096	Shortening and cooking oils.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2097	Manufactured ice.....	13	9	142	247	110	184	-	875	561	(D)	16	179	394
2098	Macaroni and spaghetti.....	6	11	139	278	122	212	(D)	1,346	543	(D)	5	117	371
2099	Food preparations, n.e.c.....	18	9	182	372	166	270	9	2,274	909	29	4	31	60

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.--INDUSTRY GROUPS AND INDUSTRIES: 1963 AND 1958--Continued

(See Appendix for explanation of column captions)

Code	Industry group and industry	1963									1958			
		Estab- lish- ments (number)	Pro- pri- etors and part- ners (number)	All employees		Production workers		Home worker wages (\$1,000)	Value of shipments (\$1,000)	Value added by manu- facture (\$1,000)	Capital expen- ditures (\$1,000)	Estab- lish- ments (number)	All em- ployees, average for year (number)	Value added by manu- facture (\$1,000)
				Average for year (number)	Sal- aries and wages (\$1,000)	Average for year (number)	Wages (\$1,000)							
21	Tobacco manufactures.....	84	49	6,833	11,444	6,627	10,481	-	62,457	26,818	137	142	4,509	10,119
2121	Cigars.....	47	35	2,201	4,814	2,167	4,487	-	31,986	14,851	(D)	98	1,582	5,707
2131	Chewing and smoking tobacco.....	6	5	49	35	44	26	-	252	55	(D)	7	44	30
2141	Tobacco stemming and redrying.....	31	(*)	(*)	(*)	(*)	(*)	-	(*)	(*)	(*)	37	2,885	4,382
22	Textile mill products.....	53	2	4,970	10,654	4,471	9,054	-	50,404	20,546	2,847	55	4,444	15,201
2211	Weaving mills, cotton.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
2221	Weaving mills, synthetics.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2231	Weaving, finishing mills, wool...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2241	Narrow fabric mills.....	3	-	(*)	(*)	(*)	(*)	-	(*)	(*)	(*)	1	(D)	(D)
225	Knitting mills.....	28	-	3,457	7,494	3,116	6,432	-	30,540	12,383	2,331	33	2,813	10,194
2251	Women's hosiery, except socks...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
2252	Hosiery, n.e.c.....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2253	Knit outerwear mills.....	18	-	2,487	5,423	2,209	4,683	-	18,732	8,574	269	19	2,083	6,636
2254	Knit underwear mills.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2256	Knit fabric mills.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	10	251	2,324
2259	Knitting mills, n.e.c.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
226	Textile finishing, except wool.	4	-	44	88	41	81	-	167	118	(D)	5	121	347
2261	Finishing plants, cotton.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	5	121	347
2262	Finishing plants, synthetic.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
227	Floor covering mills.....	5	1	713	1,225	609	955	-	4,167	2,377	22	6	(D)	(D)
2271	Woven carpets and rugs.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	5	(D)	(D)
2272	Tufted carpets and rugs.....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2279	Carpets and rugs, n.e.c.....	1	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
228	Yarn and thread mills.....	8	-	426	1,014	391	830	-	9,220	3,243	300	7	382	1,652
2281	Yarn mills, except wool.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	(D)	(D)
2282	Throwing and winding mills.....	4	-	(*)	(*)	(*)	(*)	-	(*)	(*)	(*)	-	-	-
2283	Wool yarn mills.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
2284	Thread mills.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2294	Processed textile waste.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
23	Apparel and related products.	386	118	26,678	50,670	24,882	44,287	1,183	179,220	90,722	3,188	347	17,998	44,206
2311	Men's and boys' suits and coats..	2	5	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	358	758
232	Men's and boys' furnishings....	78	26	5,174	9,075	4,883	7,899	(D)	42,032	17,861	605	69	3,208	7,150
2321	Men's dress shirts and nightwear.	27	9	1,672	2,942	1,525	2,455	2	11,272	5,151	(D)	21	1,208	2,469
2322	Men's and boys' underwear.....	10	1	1,166	2,102	1,133	1,946	-	12,239	4,758	193	6	597	1,513
2323	Men's and boys' neckwear.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
2327	Separate trousers.....	26	15	1,157	(D)	1,093	(D)	(D)	(D)	(D)	151	28	922	1,878
2328	Work clothing.....	11	-	1,088	2,146	1,044	1,932	(D)	11,204	4,672	107	10	345	878
2329	Men's and boys' clothing, n.e.c..	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
233	Women's and misses' outerwear..	55	23	3,017	5,478	2,688	4,719	130	21,618	10,668	612	67	2,375	5,418
2331	Blouses.....	14	10	549	766	515	678	(D)	1,960	1,253	(D)	25	992	2,213
2335	Dresses.....	20	10	594	998	546	878	(D)	3,128	1,945	68	17	198	399
2337	Women's suits, coats and skirts..	6	1	240	365	223	314	-	1,405	633	(D)	11	224	600
2339	Women's outerwear, n.e.c.....	15	2	1,634	3,351	1,404	2,850	-	15,127	6,837	(D)	14	961	2,206
234	Women's and children's underwear.....	111	11	12,854	26,728	12,001	23,450	165	82,052	44,819	1,491	69	6,465	19,684
2341	Women's and children's underwear.	43	11	3,833	6,582	3,602	5,880	165	27,119	14,224	316	30	1,552	4,227
2342	Corsets and allied garments.....	68	-	9,021	20,147	8,399	17,570	-	54,934	30,595	1,175	39	4,913	15,457
235	Millinery, hats, and caps.....	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5	155	427
2351	Millinery.....	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1	(D)	(D)
2352	Hats and caps.....	3	2	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	(D)	(D)
236	Children's outerwear.....	24	13	996	1,710	933	1,489	141	4,801	2,938	(D)	38	1,634	3,571
2361	Children's dresses and blouses...	20	12	682	(D)	656	(D)	141	(D)	(D)	(D)	33	1,140	2,340
2363	Children's coats and suits.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
2369	Children's outerwear, n.e.c.....	4	1	314	(D)	277	(D)	-	(D)	(D)	(D)	4	(D)	(D)
238	Miscellaneous apparel.....	47	18	2,206	3,455	2,087	2,982	566	13,984	6,919	86	62	2,665	4,393
2381	Fabric dress and work gloves.....	17	1	1,192	2,159	1,128	1,901	530	9,104	4,814	23	24	972	2,852
2384	Robes and dressing gowns.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2385	Waterproof outer garments.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2387	Apparel belts.....	3	1	30	71	26	48	-	306	120	7	3	(D)	(D)
2389	Apparel, n.e.c.....	23	16	594	303	573	256	35	631	484	3	35	(D)	(D)

See footnotes at end of table.

Table 2.--INDUSTRY GROUPS AND INDUSTRIES: 1963 AND 1958--Continued

(See Appendix for explanation of column captions.)

Code	Industry group and industry	1963									1958			
		Estab-lish-ments (number)	Pro- pri- etors and partners (number)	All employees		Production workers		Home worker wages (\$1,000)	Value of shipments (\$1,000)	Value added by manu- facture (\$1,000)	Capital ex- pend- itures (\$1,000)	Estab-lish-ments (number)	All em- ployees, average for year (number)	Value added by manu- facture (\$1,000)
				Average for year (number)	Sal- aries and wages (\$1,000)	Average for year (number)	Wages (\$1,000)							
23	Apparel and related products--Continued													
239	Fabricated textiles, n.e.c.....	63	20	1,886	3,195	1,773	2,859	118	11,388	5,448	279	33	1,118	2,805
2391	Curtains and draperies.....	7	3	82	207	80	195	(D)	652	340	(D)	-	-	-
2392	Housefurnishings, n.e.c.....	18	10	349	434	323	372	(D)	2,533	1,068	52	9	173	651
2393	Textile bags.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2394	Canvas products.....	5	1	41	75	32	49	-	340	184	-	6	23	58
2395	Fleating and stitching.....	17	5	880	1,345	852	1,270	69	2,415	1,941	92	8	430	746
2396	Apparel findings.....	7	-	385	870	345	749	-	3,822	1,495	43	6	319	1,026
2397	Schiffli machine embroideries....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2399	Textile products, n.e.c.....	4	1	74	133	70	115	-	294	166	-	4	173	344
24	Lumber and wood products.....	75	58	607	1,414	560	1,158	1	5,674	2,462	80	49	466	1,230
242	Sawmills and planing mills.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
2421	Sawmills and planing mills.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
2426	Hardwood dimension and flooring..	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
243	Millwork and related products ¹ .	65	52	560	1,326	514	1,073	1	5,278	2,263	(D)	39	407	986
2431	Millwork plants.....	64	52	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	39	407	986
2432	Veneer and plywood plants.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
2441	Nailed wooden boxes and shooks...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
249	Miscellaneous wood products....	7	5	21	(D)	21	(D)	-	(D)	(D)	-	9	(D)	(D)
2491	Wood preserving.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
2499	Wood products, n.e.c.....	6	5	(D)	(D)	(D)	(D)	-	(D)	(D)	-	8	(D)	(D)
25	Furniture and fixtures.....	205	137	3,691	8,240	3,138	6,081	32	28,796	15,463	1,143	204	2,861	8,720
251	Household furniture.....	189	127	3,568	7,932	3,027	5,822	(D)	27,884	15,011	1,122	192	2,774	8,499
2511	Wood furniture not upholstered...	128	93	1,938	3,891	1,613	2,888	(D)	12,447	7,383	631	145	1,715	4,694
2512	Wood furniture, upholstered.....	21	11	412	802	372	687	(D)	2,720	1,618	(D)	12	236	726
2514	Metal household furniture.....	14	3	483	1,372	405	932	(D)	4,059	2,197	(D)	11	178	651
2515	Mattresses and bedsprings.....	16	7	536	1,446	457	966	-	7,295	3,087	185	19	544	2,271
2519	Household furniture, n.e.c.....	10	8	199	421	182	350	-	1,364	727	(D)	5	101	157
2521	Wood office furniture.....	5	4	18	44	18	44	(D)	160	105	-	2	(D)	(D)
2521	Public building furniture.....	3	2	(D)	(D)	(D)	(D)	-	(D)	(D)	-	5	44	122
254	Partitions and fixtures.....	6	4	57	156	47	109	-	385	161	(D)	3	(D)	(D)
2541	Wood partitions and fixtures.....	4	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	(D)	(D)
2542	Metal partitions and fixtures.....	2	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
259	Furniture and fixtures, n.e.c...	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2	(D)	(D)
2591	Venetian blinds and shades.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
2599	Furniture and fixtures, n.e.c.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
26	Paper and allied products....	27	1	1,286	4,587	1,019	3,138	-	21,406	8,360	1,783	111	1,635	3,902
2631	Paperboard mills.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2661	Building paper and board mills...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
264	Paper and paperboard products..	12	-	328	(D)	290	(D)	-	(D)	(D)	(D)	15	(D)	(D)
2641	Paper coating and glazing.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2642	Envelopes.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2643	Bags, except textile bags.....	5	-	167	492	143	350	-	3,585	1,441	(D)	2	(D)	(D)
2645	Die cut paper and board.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2647	Sanitary paper products.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2649	Converted paper products, n.e.c...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
265	Paperboard containers and boxes	12	1	609	2,327	457	1,522	-	10,229	4,145	524	5	332	1,698
2651	Folding paperboard boxes.....	3	-	90	(D)	78	(D)	-	(D)	(D)	(D)	2	(D)	(D)
2652	Set-up paperboard boxes.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2653	Corrugated shipping containers...	6	-	483	1,956	346	1,271	-	9,045	3,436	(D)	2	(D)	(D)
2654	Sanitary food containers.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
27	Printing and publishing.....	133	88	1,385	6,543	1,132	3,613	(D)	18,205	13,547	829	110	1,516	6,762
2711	Newspapers.....	4	1	928	3,840	325	1,429	-	11,304	8,752	760	3	651	(D)
2721	Periodicals.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2731	Books, publishing and printing...	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2741	Miscellaneous publishing.....	1	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-

See footnotes at end of table.

1963 CENSUS OF MANUFACTURES

Table 2.--INDUSTRY GROUPS AND INDUSTRIES: 1963 AND 1958--Continued

(See Appendix for explanation of column captions)

Code	Industry group and industry	1963									1958			
		Estab- lish- ments (number)	Pro- pri- etors and part- ners (number)	All employees		Production workers		Home worker wages (\$1,000)	Value of shipments (\$1,000)	Value added by manu- facture (\$1,000)	Capital expend- itures (\$1,000)	Estab- lish- ments (number)	All em- ployees, average for year (number)	Value added by manu- facture (\$1,000)
				Average for year (number)	Sal- aries and wages (\$1,000)	Average for year (number)	Wages (\$1,000)							
27	Printing and publishing-- Continued													
275	Commercial printing.....	112	81	797	2,171	669	1,738	(D)	5,350	3,572	65	96	796	3,057
2751	Printing, except lithographic....	89	70	580	1,489	501	1,201	-	3,406	2,223	11	87	(2)	(2)
2752	Printing, lithographic.....	22	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	54	8	(D)	(D)
2753	Engraving and plate printing....	1	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
2761	Manifold business forms.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	2	(D)	(D)
2771	Greeting card manufacturing.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
2789	Bookbinding and related work....	3	3	3	4	3	4	-	15	10	-	2	(D)	(D)
279	Printing trades services.....	6	1	92	332	81	268	-	828	670	(D)	4	41	148
2791	Typesetting.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
2793	Photoengraving.....	5	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	(D)	(D)
28	Chemicals and allied products	80	11	2,337	8,172	1,658	4,810	-	80,696	46,151	4,042	70	1,483	19,207
281	Basic chemicals.....	8	-	337	(D)	348	(D)	-	(D)	(D)	(D)	6	152	635
2813	Industrial gases.....	4	-	34	145	28	130	-	508	267	7	5	(D)	(D)
2815	Intermediate coal tar products...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
2818	Organic chemicals, n.e.c.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2819	Inorganic chemicals, n.e.c.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
2824	Organic fibers, noncellulosic....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
283	Drugs.....	25	3	666	2,058	484	1,332	-	27,636	20,189	475	21	364	2,677
2833	Medicinal and botanicals.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
2834	Pharmaceutical preparations.....	24	3	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	19	(D)	(D)
284	Cleaning and toilet goods.....	18	1	336	800	217	446	-	6,043	2,709	160	18	141	696
2841	Soap and other detergents.....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
2842	Polishes and sanitation goods....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	(D)	(D)
2844	Toilet preparations.....	13	1	219	552	131	278	-	4,614	2,065	(D)	12	103	526
2851	Paints and allied products.....	6	-	124	410	80	215	-	3,188	1,112	(D)	3	(D)	(D)
287	Agricultural chemicals.....	9	-	453	1,521	332	880	-	16,762	5,116	(D)	10	670	4,694
2871	Fertilizers.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
2872	Fertilizers, mixing only.....	7	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	7	(D)	(D)
2879	Agricultural chemicals, n.e.c.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	2	(D)	(D)
289	Miscellaneous chemical products	14	7	221	(D)	197	(D)	-	(D)	(D)	(D)	11	90	127
2891	Glue and gelatin.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
2899	Chemical preparations, n.e.c.....	12	7	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	11	90	127
29	Petroleum and coal products..	9	-	1,362	(D)	1,103	(D)	-	(D)	(D)	(D)	8	(D)	(D)
2911	Petroleum refining.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
295	Paving and roofing materials...	7	-	(D)	(D)	(D)	(D)	-	(D)	(D)	346	6	100	760
2951	Paving mixtures and blocks.....	5	-	(D)	(D)	(D)	(D)	-	(D)	(D)	346	5	(D)	(D)
2952	Asphalt felts and coatings.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
30	Rubber and plastics products, n.e.c.....	24	-	1,160	3,072	1,054	2,395	-	13,279	6,293	445	14	1,022	14,036
3021	Rubber footwear.....	3	-	626	1,564	593	1,284	-	5,689	2,702	311	2	(D)	(D)
3069	Rubber products, n.e.c.....	3	-	55	214	45	126	-	670	354	(D)	3	(D)	(D)
3079	Plastics products, n.e.c.....	18	-	479	1,295	416	984	-	6,920	3,237	(D)	19	1,737	12,563
31	Leather and leather products..	56	1	5,997	10,959	5,470	8,854	3	42,701	20,682	1,011	132	1,620	16,673
3111	Leather tanning and finishing....	7	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	200	(D)
3131	Footwear cut stock.....	4	-	409	662	398	594	-	2,365	880	(D)	1	(D)	(D)
314	Shoes, except rubber.....	20	-	2,868	5,816	2,500	4,324	-	19,276	10,337	713	12	1,543	4,211
3141	Footwear, except rubber.....	19	-	(D)	(D)	(D)	(D)	-	(D)	(D)	713	8	1,417	3,794
3142	House slippers.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	4	126	417
3151	Leather gloves.....	5	-	433	761	392	631	-	1,743	879	(D)	1	(D)	(D)
3161	Luggage.....	5	1	277	413	256	366	(D)	2,026	1,056	22	3	21	(D)
317	Purses and small leather goods.	14	-	1,409	2,268	1,347	2,068	(D)	9,712	3,824	73	10	1,692	11,365
3171	Handbags and purses.....	4	-	561	(D)	534	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3172	Small leather goods.....	10	-	848	(D)	813	(D)	(D)	(D)	(D)	(D)	18	(D)	(D)
3199	Leather goods, n.e.c.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)

See footnotes at end of table.

Table 2.--INDUSTRY GROUPS AND INDUSTRIES: 1963 AND 1958--Continued

(See Appendix for explanation of column captions)

Code	Industry group and industry	1963									1958			
		Estab-lish-ments (number)	Pro-pri-ets and partners (number)	All employees		Production workers		Home worker wages (\$1,000)	Value of shipments (\$1,000)	Value added by manu-facture (\$1,000)	Capital expend-itures (\$1,000)	Estab-lish-ments (number)	All em-ployees, average for year (number)	Value added by manu-facture (\$1,000)
				Average for year (number)	Salaries and wages (\$1,000)	Average for year (number)	Wages (\$1,000)							
32	Stone, clay and glass products.....	229	140	5,300	16,159	4,008	10,467	(D)	69,233	37,710	6,090	171	4,131	19,251
3221	Glass containers.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3231	Products of purchased glass.....	10	8	63	152	56	140	-	804	379	-	5	24	85
3241	Cement, hydraulic.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
325	Structural clay products.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	3	156	(D)
3251	Brick and structural tile.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
3253	Ceramic wall and floor tile.....	1	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
3259	Structural clay products, n.e.c..	-	-	-	-	-	-	-	-	-	-	2	(D)	(D)
326	Pottery and related products...	4	1	362	(D)	326	(D)	-	(D)	(D)	(D)	4	395	1,044
3262	Vitreous china food utensils.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3264	Porcelain electrical supplies....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3269	Pottery products, n.e.c.....	3	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	2	(D)	(D)
327	Concrete and plaster products..	198	126	3,027	7,207	2,350	4,839	(D)	34,446	16,882	4,030	148	2,003	7,060
3271	Concrete block and brick.....	115	85	789	1,425	714	1,190	-	6,060	3,023	(D)	93	512	1,336
3272	Concrete products.....	60	30	1,345	3,113	1,190	2,429	(D)	10,395	6,664	732	37	1,021	3,169
3273	Ready-mixed concrete.....	16	7	776	2,459	391	1,108	-	17,742	6,995	1,133	9	338	2,362
3274	Lime.....	6	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	7	(D)	(D)
3275	Gypsum products.....	1	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	-	2	(D)	(D)
3281	Cut stone and stone products....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	(D)	(D)
329	Nonmetallic minerals products..	10	3	228	707	179	499	-	3,039	1,920	(D)	4	(D)	(D)
3291	Abrasive products.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3292	Asbestos products.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3293	Minerals, ground or treated.....	4	1	59	185	47	142	-	1,309	797	(D)	1	(D)	(D)
3296	Mineral wool.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
3299	Nonmetallic minerals, n.e.c.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
33	Primary metal industries.....	15	3	664	2,274	563	1,517	-	11,855	5,788	1,304	14	426	1,908
331	Steel rolling and finishing....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	242	(D)
3312	Blast furnaces and steel mills...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3315	Steel wire drawing, etc.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
332	Iron and steel foundries.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3321	Gray iron foundries.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3322	Malleable iron foundries.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3341	Secondary nonferrous metals.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
335	Nonferrous rolling and drawing.	4	-	217	808	173	481	-	5,812	2,160	1,055	4	112	665
3352	Aluminum rolling and drawing....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3357	Nonferrous wire drawing, etc.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
336	Nonferrous foundries.....	7	3	140	410	123	278	-	2,288	1,781	(D)	5	19	58
3361	Aluminum castings.....	5	3	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	(D)	(D)
3369	Nonferrous castings, n.e.c.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
34	Fabricated metal products....	175	98	2,611	8,656	2,021	5,402	8	49,157	16,756	1,289	113	2,007	10,287
3411	Metal cans.....	4	-	280	(D)	243	(D)	-	(D)	(D)	(D)	1	(D)	(D)
342	Cutlery, hand tools, hardware..	5	-	79	(D)	70	(D)	-	(D)	(D)	(D)	5	149	683
3421	Cutlery.....	-	-	-	-	-	-	-	-	-	-	2	(D)	(D)
3423	Hand and edge tools.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
3423	Hand saws and saw blades.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3429	Hardware, n.e.c.....	4	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3433	Heating equipment except electric	-	-	-	-	-	-	-	-	-	-	2	(D)	(D)
344	Structural metal products.....	138	97	1,792	5,666	1,329	3,182	8	29,274	9,485	363	80	1,238	6,150
3441	Fabricated structural steel.....	5	1	402	(D)	231	(D)	-	(D)	(D)	61	2	(D)	(D)
3442	Metal doors, sash, and trim.....	36	19	699	2,100	514	1,210	6	13,014	5,255	202	29	434	3,173
3443	Boiler shop products.....	3	2	55	(D)	51	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3444	Sheet metal work.....	21	10	288	958	187	486	-	3,138	1,315	(D)	11	(D)	(D)
3446	Architectural metal work.....	37	51	291	580	289	575	2	1,668	981	(D)	-	-	-
3449	Miscellaneous metal work.....	16	14	59	138	37	130	-	828	410	-	37	173	473
345	Screw machine products, bolts, etc.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	4	48	196
3451	Screw machine products.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3452	Bolts, nuts, rivets and washers..	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)

See footnotes at end of table.

Table 2.--INDUSTRY GROUPS AND INDUSTRIES: 1963 AND 1958--Continued

(See Appendix for explanation of column captions)

Code	Industry group and industry	1963									1958			
		Estab- lish- ments (number)	Pro- pri- etors and part- ners (number)	All employees		Production workers		Home worker wages (\$1,000)	Value of shipments (\$1,000)	Value added by manu- facture (\$1,000)	Capital expen- ditures (\$1,000)	Estab- lish- ments (number)	All em- ployees, average for year (number)	Value added by manu- facture (\$1,000)
				Average for year (number)	Sal- aries and wages (\$1,000)	Average for year (number)	Wages (\$1,000)							
34	Fabricated metal products-- Continued													
3461	Metal stampings.....	5	-	99	286	78	227	-	1,801	704	(D)	1	(D)	(D)
347	Metal services, n.e.c.....	6	-	76	198	67	157	-	606	372	(D)	4	46	91
3471	Plating and polishing.....	5	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	(D)	(D)
3479	Metal coating, engraving, etc....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3481	Fabricated wire products, n.e.c....	11	-	169	469	138	374	-	3,437	1,365	(D)	12	226	1,348
349	Fabricated metal products, n.e.c.....	4	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	9	166	675
3491	Metal barrels, drums and pails...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	(D)	(D)
3493	Steel springs.....	-	-	-	-	-	-	-	-	-	-	3	(D)	(D)
3494	Valves and pipe fittings.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3496	Collapsible tubes.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
3499	Fabricated metal products, n.e.c....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	5	95	378
35	Machinery, except electrical.	33	5	952	3,348	803	2,458	-	10,906	7,640	576	26	705	4,153
3519	Internal combustion engines.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-
3522	Farm machinery and equipment.....	1	1	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
354	Metalworking machinery.....	9	-	185	625	165	500	-	2,727	1,746	138	5	94	551
3541	Metal-cutting machine tools.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3542	Metal-forming machine tools.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
3544	Special dies and tools.....	3	-	42	(D)	38	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3545	Machine tool accessories.....	3	-	75	(D)	67	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3548	Metalworking machinery, n.e.c.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
355	Special industry machinery.....	8	-	482	1,874	396	1,277	-	5,332	3,992	(D)	5	367	2,318
3551	Food products machinery.....	5	-	405	1,527	334	1,068	-	3,438	2,707	(D)	3	(D)	(D)
3553	Woodworking machinery.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3554	Paper industries machinery.....	1	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3555	Printing trades machinery.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
356	General industrial machinery...	3	-	49	(D)	44	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3561	Pumps and compressors.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3562	Ball and roller bearings.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3566	Power transmission equipment.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
358	Service industry machines.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3585	Refrigeration machinery.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3589	Service industry machines, n.e.c....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3599	Miscellaneous machinery.....	9	4	169	518	141	414	-	1,450	956	(D)	12	177	812
36	Electrical machinery.....	73	-	5,572	16,734	4,950	13,643	-	90,290	50,866	3,109	49	3,049	21,837
361	Electric distribution products.....	12	-	1,501	4,731	1,360	3,756	-	22,119	14,046	378	8	616	3,092
3611	Electric measuring instruments...	5	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3612	Transformers.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
3613	Switchgear and switchboards.....	6	-	1,259	4,067	1,152	3,258	-	19,861	12,770	(D)	6	(D)	(D)
362	Electric industrial apparatus...	6	-	212	467	188	389	-	2,853	1,620	(D)	2	(D)	(D)
3621	Motors and generators.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3622	Industrial controls.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
3623	Welding apparatus.....	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
3629	Electric industrial goods, n.e.c....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
363	Household appliances.....	11	-	1,420	4,396	1,351	3,975	-	29,927	12,236	(D)	6	975	10,496
3631	Household cooking equipment.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
3632	Household refrigerators.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
3634	Electric housewares and fans.....	5	-	1,331	4,121	1,282	3,812	-	28,695	11,708	(D)	5	(D)	(D)
3639	Household appliances, n.e.c.....	3	-	22	(D)	21	(D)	-	(D)	(D)	(D)	1	(D)	(D)
364	Lighting and wiring devices....	9	-	581	1,718	518	1,348	-	10,165	6,428	322	5	190	2,315
3641	Electric lamps.....	-	-	-	-	-	-	-	-	-	-	3	(D)	(D)
3642	Lighting fixtures.....	4	-	38	(D)	35	(D)	-	(D)	(D)	(D)	-	-	-
3643	Current carrying devices.....	5	-	543	(D)	485	(D)	-	(D)	(D)	(D)	2	(D)	(D)
365	Radio and TV receiving equipment.....	4	-	70	161	63	143	-	655	457	(D)	4	111	581
3651	Radio and TV receiving sets.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3652	Phonograph records.....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
366	Communication equipment.....	4	-	527	1,396	363	899	-	8,214	5,558	(D)	3	(D)	(D)
3661	Telephone; telegraph apparatus...	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3662	Radio, TV communication equipment	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)

See footnotes at end of table.

Table 2.--INDUSTRY GROUPS AND INDUSTRIES: 1963 AND 1958--Continued

(See Appendix for explanation of column captions)

Code	Industry group and industry	1963									1958			
		Estab-lish-ments	Pro-prietors and partners	All employees		Production workers		Home worker wages	Value of shipments	Value added by manu-facture	Capital expend-itures	Estab-lish-ments	All em-ployees, average for year	Value added by manu-facture
				Average for year	Sal-aries and wages	Average for year	Wages							
(number)	(number)	(number)	(\$1,000)	(number)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(number)	(number)	(\$1,000)		
36	Electrical machinery-- Continued													
367	Electronic components.....	22	-	1,117	3,444	979	2,843	-	14,285	9,428	592	14	751	2,894
3671	Electron tubes, receiving type...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	(D)
3672	Cathode ray picture tubes.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
3674	Semiconductors.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	(D)	(D)
3679	Electronic components, n.e.c.....	19	-	1,060	3,209	926	2,651	-	13,369	8,725	(D)	13	(D)	(D)
369	Electrical products, n.e.c.....	5	-	144	421	128	291	-	2,073	1,094	(D)	7	202	1,220
3691	Storage batteries.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	4	(D)	(D)
3692	Primary batteries, dry and wet...	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	(D)
3694	Engine electrical equipment.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3699	Electrical products, n.e.c.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
37	Transportation equipment.....	7	1	325	(D)	291	(D)	-	(D)	(D)	(D)	3	(D)	(D)
3713	Truck and bus bodies.....	2	1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	1	(D)	(D)
3729	Aircraft equipment, n.e.c.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	-
373	Ship and boat building.....	4	-	265	(D)	240	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3731	Ship building and repairing.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	(D)
3732	Boat building and repairing.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3799	Transportation equipment, n.e.c..	-	-	-	-	-	-	-	-	-	-	1	(D)	(D)
38	Instruments and related products.....	14	-	1,857	5,272	1,720	4,524	-	21,971	12,070	525	15	1,148	3,952
3811	Scientific instruments.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	3	43	(D)
3821	Mechanical measuring devices....	4	-	194	(D)	180	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3831	Optical instruments and lenses....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	(D)
384	Medical instruments and supplies	4	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	6	193	690
3841	Surgical and medical instruments..	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3842	Surgical appliances and supplies..	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	135	(D)
3843	Dental equipment and supplies....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2	(D)	(D)
3851	Ophthalmic goods.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	734	(D)
3861	Photographic equipment.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3871	Watches and clocks.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	-	-	(D)
39	Miscellaneous manufacturing, including ordnance.....	97	57	4,289	8,227	3,958	6,637	37	34,616	16,510	750	194	13,964	11,760
391	Jewelry and silverware.....	18	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	71	11	352	(D)
3911	Jewelry, precious metal.....	5	-	72	204	46	119	-	757	437	(D)	1	(D)	(D)
3912	Jewelers' findings and materials..	-	-	-	-	-	-	-	-	-	-	2	(D)	(D)
3913	Lapidary work.....	10	-	922	314	776	(D)	-	7,862	3,115	(D)	7	267	1,258
3914	Silverware and plated ware.....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
394	Toys and sporting goods.....	19	-	1,940	3,208	1,837	2,915	-	11,441	5,434	272	17	1,411	3,905
3941	Games and toys.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
3942	Dolls.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	6	(D)	(D)
3949	Sporting and athletic goods.....	15	-	1,568	2,375	1,480	2,333	-	8,972	3,769	235	10	949	2,624
395	Pens, pencils and office supplies.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	3	431	(D)
3951	Pens and mechanical pencils.....	-	-	-	-	-	-	-	-	-	-	2	(D)	(D)
3953	Marking devices.....	1	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	1	(D)	(D)
396	Costume jewelry and notions....	22	43	971	1,630	908	1,406	(D)	7,298	3,607	150	130	11,309	13,281
3961	Costume jewelry.....	9	43	513	993	422	676	(D)	3,828	1,935	(D)	115	2816	11,800
3962	Artificial flowers.....	5	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	6	200	774
3963	Buttons.....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	148	255
3964	Needles, pins, and fasteners....	6	-	238	402	224	354	-	2,228	896	(D)	6	145	452
398	Miscellaneous manufactures, including ordnance.....	37	14	814	1,669	719	1,134	23	6,123	3,072	257	33	461	1,299
3981	Brooms and brushes.....	10	3	283	468	250	380	-	1,993	1,094	(D)	7	148	298
3984	Candles.....	3	-	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	(D)
3988	Morticians' goods.....	6	5	45	88	42	78	(D)	337	112	(D)	9	36	112
3993	Signs and advertising displays..	9	5	49	122	42	97	-	267	196	(D)	10	36	201
3995	Umbrellas, parasols and canes....	2	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	3	35	(D)
3999	Miscellaneous products, n.e.c., including ordnance and accessories ^a	7	1	392	910	344	516	(D)	3,144	1,523	(D)	4	206	(D)

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

(D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified. [†]Revised. - Represents zero.

*Industry totals have been withheld to permit additional checking of figures. However, data for the industry are included in industry group, major group, and all manufacturing totals.

¹In 1963, over 99 percent of the value added for millwork and related products was accounted for by establishments classified in Industry 2431, Millwork Plants.

²Figures for 1958 not comparable with 1963 at the 4-digit level.

³Includes 2 establishments classified in Industry 1951, Small Arms, 30 mm and Under.

EXPLANATION OF TERMS

All employees.--Comprises all production and related workers and all nonproduction personnel. The 1963 data for all employees represent an average of reported employment for the pay periods ending nearest to the 15th day of March, May, August, and November. All persons on paid sick leave, paid holidays, and paid vacations during these pay periods are included. Members of the armed forces, pensioners carried on the active rolls, and homeworkers are excluded.

Production workers.--Employees (through working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (for example, power plant), record keeping, and other services closely associated with production operations. Supervisory employees above working foreman level are excluded from this category. Establishments having fewer than 10 employees were requested to report employment without differentiating between production workers and other employees. However, employment data for these small establishments are included in the tabulated totals for production workers since the number of employees not production workers is very small.

Proprietors and partners.--Owners or part-owners of unincorporated manufacturing establishments (for example, individual proprietorships and partnerships) actually engaged in plant operations, either as production or nonproduction personnel. Individual proprietors and working partners are not considered to be employees of the establishment.

Salaries and wages.--Gross earnings paid in calendar year 1963 to all employees on the payroll includes salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employee's Social Security contributions, income tax, group insurance, union dues, etc. Payments to officers of corporations are included, but payments to the proprietors or partners of unincorporated manufacturing establishments are not.

EXPLICACION DE TERMINOS USADOS

Todos los empleados.--La categoría "todos los empleados" consta de todos los obreros de producción y relacionados, y de todo el personal adicional al de producción de los establecimientos manufactureros. Los datos de 1963 para todos los empleados representan un promedio del empleo informado para el período de pago que termina más cercano al día 15 de marzo, mayo, agosto, y noviembre. Todas las personas con paga por vacaciones por enfermedad, días feriados y con vacaciones regulares, durante estos periodos de pago son incluidas. Miembros de las Fuerzas Armadas, pensionados incluidos en las nóminas activas y trabajadores a domicilio son excluidos.

Obreros de producción.--Incluye empleados (hasta el nivel de capataz) ocupados en la fabricación, elaboración, montaje, inspección, recibimiento, almacenaje, manejo, empaque, embarque (pero no entrega), mantenimiento, reparación, limpieza, vigilancia, desarrollo de productos, producción auxiliar para el uso propio de la fábrica (por ejemplo, estación generadora), mantener los registros y otros servicios estrechamente asociados con operaciones productivas del establecimiento. Empleados supervisores sobre el nivel de capataz son excluidos de esta categoría. A los establecimientos con menos de 10 empleados se les pidió que informaran el empleo, sin diferenciar entre obreros de producción y otros empleados. Sin embargo, los datos sobre empleo de estos pequeños establecimientos están incluidos en los totales tabulados para obreros de producción, ya que el número de empleados que no son en verdad obreros de producción es muy pequeño.

Propietarios y socios.--Esta categoría incluye los dueños o socios de establecimientos manufactureros no incorporados (por ejemplo, propietarios individuales y sociedades), que estuvieron ocupados en operaciones de la fábrica como personal de producción o en otros menesteres. Propietarios individuales y socios activos no se consideran empleados del establecimiento.

Salarios y jornales.--Esta cifra representa el total de los salarios pagados durante el año natural 1963 a todos los empleados en las nóminas de los establecimientos manufactureros. Este total incluye salarios, jornales, comisiones, paga por cesantía, bonificaciones, vacaciones regulares y por enfermedad, y compensaciones en especie, antes de deducir los descuentos para Seguro Social, contribución sobre ingresos, seguros grupales,

Payments to members of the armed forces and pensioners carried on the active payroll are also excluded. Payments to homeworkers are excluded from salaries and wages, but are tabulated separately as "homeworker wages."

The larger establishments (10 employees or more) reported separately payments to production workers and payments to all others. Payments to production workers are tabulated as wages. Smaller establishments (fewer than 10 employees) reported only total salaries and wages; however, their payroll data are tabulated entirely as wages.

Homeworker wages.--Payments made directly to those who work outside the factory on materials supplied by the manufacturer. Payments to homeworkers are excluded from salaries and wages. Manufacturers did not report payments to homeworkers made through contractors or subcontractors; the latter, however, were requested to report such payments.

Value of shipments.--Net value of products shipped, f.o.b. plant, after discounts and allowances, and excluding excise taxes. Value of shipments includes receipts for contract work performed for others on their materials, and receipts for nonmanufacturing activities such as installation work performed by plant employees, repair work, sale of scrap and refuse, and sale of products bought and resold in the same condition. The value of shipments includes not only the value of products shipped and contract work for products primary to the industry under SIC classification, but also the value of products shipped and contract work for products secondary to the industry.

Products transferred to other establishments of the same company are valued at the nearest approximation to their economic value; that is, the value includes in addition to the direct costs of production a reasonable proportion of "all other costs" (company overhead and profits).

A summation of value of shipments data for individual industries to industry group totals results in large and unknown amounts of duplication because the products of some industries are used as materials by others.

Value added by manufacture.--Derived for each manufacturing establishment by deducting the total cost of raw materials, containers, parts, components, supplies, fuels and electric energy, goods purchased for resale, and contract work from

cuotas a uniones obreras, etc. Pagos a oficiales de corporaciones son incluidos, pero no así los pagos a propietarios o socios de establecimientos manufactureros no incorporados. Pagos a miembros de las Fuerzas Armadas y a pensionados son también excluidos. Pagos a trabajadores a domicilio son excluidos de salarios y jornales, pero son tabulados separadamente como "jornales de trabajadores a domicilio."

A los establecimientos más grandes (con 10 o más empleados) se les pidió que informaran separadamente los pagos a obreros de producción y pagos a todos los demás empleados. Los pagos a obreros de producción se tabulan como jornales. Los establecimientos pequeños (los que tienen menos de 10 empleados) se les pidió informaran solamente el total de los salarios y jornales; sin embargo, los datos de las nóminas son tabulados enteramente como jornales.

Salarios de trabajadores a domicilio.--Esta partida consiste de pagos hechos directamente a trabajadores a domicilio quienes trabajan fuera de la fábrica con materiales suplidos por el manufacturero. Los pagos a dichos trabajadores son excluidos de salarios y jornales. Los manufactureros no informan los pagos a trabajadores a domicilio cuando se hicieron a través de contratistas o sub-contratistas; éstos últimos, sin embargo, fueron los que informaron tales pagos.

Valor de las ventas.--El valor de las ventas representa el valor neto de los productos vendidos por los establecimientos manufactureros, libre a bordo, fábrica, después de las deducciones y descuentos y excluyendo arbitrios. El valor de las ventas incluye los ingresos de los trabajos por contrato ejecutados para otros con sus materiales y los ingresos por actividades no manufactureras, tales como, trabajos de instalación realizados por los empleados de la fábrica, trabajos de reparación, venta de chatarra y desechos, y venta de productos comprados y revendidos en la misma condición. El valor de las ventas incluye no sólo el valor de los productos vendidos y el trabajo por contrato para productos primarios clasificados por la CIU de dicha industria, sino también el valor de los productos vendidos y el trabajo por contrato para productos secundarios para esa industria.

Los productos que se transfieren a otros establecimientos de la misma compañía son valorados a la aproximación más cercana del valor comercial, esto es, el valor incluye además del costo directo de producción, una proporción razonable de "todos los otros gastos" (gastos generales de la fábrica y ganancias).

Los totales obtenidos para grupos de industrias a base del valor de las ventas en las industrias individuales resulta en una duplicación considerable y desconocida, porque los productos de algunas industrias son usados como materiales primarios por otras.

the value of shipments (as defined above) and adjusting the difference for the net change in finished goods and work-in-process inventories.

Value added avoids the duplication in the value of shipments which results from the use of products of some establishments as materials by others. For most purposes, it is the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Expenditures for plant and equipment.--Larger manufacturing establishments (10 employees or more) reported expenditures in 1963 for permanent additions and major alterations to plant and for new and used machinery and equipment. Expenditures for land, leasing of equipment, and cost of maintenance and repairs charged as current operating expense are excluded.

Valor agregado por la manufactura.--Este valor se obtiene para cada establecimiento manufacturero, restando el costo total de la materia prima, envases, piezas, componentes, materiales, combustibles y energía eléctrica, productos comprados para reventa, y trabajos por contratos del valor de las ventas (según definido antes), y ajustando la diferencia para el cambio neto de los productos terminados e inventarios de productos en proceso de elaboración.

El valor agregado evita la duplicidad en el valor de las ventas, lo cual resulta cuando algunos establecimientos usan como materiales los productos de otros establecimientos. Para muchos propósitos, es la mejor medida de valor disponible para comparar la importancia económica relativa de la manufactura entre las industrias y las áreas geográficas.

Inversiones de capital.--A los establecimientos manufactureros grandes (con 10 ó más empleados) se les pidió que informaran los gastos para 1963 por adiciones permanentes, y reparaciones mayores a la fábrica y por maquinarias y equipo nuevo y usado. Los gastos incurridos debido a la compra de terreno, alquiler de equipo, costo de mantenimiento y reparaciones cargados a gastos de operación, son excluidos.

FINAL REPORT FOR THE 1963 CENSUS OF MANUFACTURES
OF PUERTO RICO

The final report for the 1963 Census of Manufactures of Puerto Rico (MO63-PR) will be published near the end of the second quarter of this calendar year. This publication will contain general statistics (employment, payrolls, value added, and value of shipments) distributed by: regions, standard metropolitan statistical areas (SMSA's) and municipios, employment size, value added size, and by tax status of the establishments. More detailed statistics, such as value of shipments by destination and class of customer and by kinds of products shipped, inventories by stage of fabrication, capital expenditures by type, and production worker man-hours, will be included for industries and SMSA's. The final publication also will show general and other statistics for manufacturing establishments classified by local (Puerto Rico) and nonlocal ownership.

Order forms for the final report may be obtained from the U.S. Department of Commerce Field Offices, from the Bureau of the Census, Washington, D.C., or from the Puerto Rico Planning Board, San Juan, Puerto Rico.

INFORME FINAL PARA EL CENSO DE MANUFACTURAS DE
1963 DE PUERTO RICO

El informe final para el Censo de Manufacturas de 1963 de Puerto Rico (Boletín MO63-PR) será publicado a fines del segundo trimestre de este año natural. Esta publicación contendrá estadísticas generales (empleo, nóminas, valor agregado, y valor total de las ventas) distribuidas por: regiones, áreas estadísticas metropolitanas estándares (AEME) y municipios, tamaño de empleo, tamaño de valor agregado, y por estado contributivo de los establecimientos. Estadísticas más detalladas, tales como valor de ventas distribuidas por consignación y clase de consumidor y por clase de productos vendidos, inventarios por etapas de fabricación, inversiones de capital por tipo de gasto y horas trabajadas por obreros de producción, serán presentadas por industrias y áreas estadísticas metropolitanas estándares. La publicación final mostrará, además, estadísticas generales y otras estadísticas para los establecimientos manufactureros, clasificados entre pertenecientes a residentes de Puerto Rico y pertenecientes a no residentes.

Para solicitar el informe final pueden dirigirse a: U.S. Department of Commerce, Field Offices, Bureau of the Census, Washington, D.C.; o a la Junta de Planificación de Puerto Rico, San Juan, Puerto Rico.

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