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# MANUFACTURES

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# MANUFACTURES

## GENERAL EXPLANATIONS

The census of manufactures for 1929 was the fifth of a series taken at 2-year intervals beginning with 1921. For these censuses, somewhat restricted in scope as compared with prior censuses taken at 5-year intervals, legal authority is found in section 32 of the Fourteenth Census Act and in section 17 of the Fifteenth Census Act. Censuses of manufactures were taken decennially prior to 1899 and quinquennially from 1899 to 1919, inclusive.

1. **Expansion for 1929.**—Because the census for 1929 belonged to the decennial as well as to the biennial series, more data were obtained than for preceding biennial censuses.

The expansion of the schedules for 1929 was made at the recommendation of an advisory committee appointed by the Secretary of Commerce. The membership of this committee, 25 in number, represented some of the leading manufacturing industries, the Chamber of Commerce of the United States, Cornell University, the Rockefeller Foundation, the National Industrial Conference Board, the Associated Business Papers, the American Federation of Labor, Stanford University, the National Coal Association, the office of the Secretary of Commerce, and the Bureau of the Census. The number of inquiries common to all schedules was increased from 8 to 12; some of the individual inquiries were amplified and others were modified. All changes of any importance were made at the recommendation of the advisory committee.

2. **Comparableness with preceding years.**—The comparableness of the statistics for 1929 with those for preceding years is affected to some extent, but only slightly in the cases of most industries, by certain schedule changes in the items for cost of materials and value of products. (See *a*, *b*, and *c*, below.)

Comparative statistics are given for as many of the earlier years as possible, back to and including 1899. The census for that year was the earliest at which the classifications for many industries were such as to make possible the presentation of fairly comparable figures. For a considerable number of industries, however, it is impossible to give comparative figures for years as far back as 1899.

Of the changes in the schedules which were made at the recommendation of the advisory committee, referred to above, the only ones which had any effect on the comparableness of the 1929 statistics with those for preceding years are the following:

*a. Mill or shop supplies.*—At former censuses the cost of mill or shop supplies (lubricating oil, minor replacement parts of machines and equipment, etc.) had been included in the cost of materials as reported, but the schedules for 1929 directed manufacturers to omit it.

This change was made in order to render it more convenient for manufacturers to make their reports. The cost of supplies is carried in the accounts of some manufacturers together with other "overhead" items, so that it is difficult or impracticable either to report it separately or to include it with the cost of materials proper. As a result of this change, the indicated increases in the cost-of-materials items understate the true increases and the indicated decreases overstate the true decreases; but for most industries these understatements and overstatements are slight and unimportant. In the reports for the few industries in which the cost of supplies formerly constituted a considerable part of the cost-of-materials item, special attention is called to this fact.

The value added by manufacture is, of course, affected to the same extent as the cost of materials, but in the opposite direction. (See sec. 13, "Value added by manufacture.")

*b. Option in reporting materials.*—The 1929 schedule gave manufacturers the option of reporting either the cost of materials purchased or the cost of those actually used during the census year.

It was found that in many cases the cost of materials purchased was out of line with the cost of materials consumed, as reported by the same manufacturers for earlier years. In order that the statistics might be made comparable, such cases were taken up by correspondence and data were obtained for the cost of materials consumed. It is therefore unlikely that the comparableness of the statistics has been affected appreciably by the use of data for materials purchased.

*c. Substitution of sales for production.*—At the census for 1929 manufacturers in most industries were directed to report their “shipments or deliveries” instead of their production, which had been reported at former censuses.

This change was made because the records kept by manufacturers in practically all cases show their sales, but in many cases do not show their production, during a given period. For 76 industries, however, the data on production were called for, as at former censuses. These exceptions were made for special reasons, and in most cases at the request of the associations representing the industries in question, or of important manufacturers in the industries. It is believed that the change from the production to the sales basis for reporting value of products had very little effect on the comparableness of the statistics for 1929 with those for preceding census years since it is likely that the excess of sales over production in some establishments and the excess of production over sales in others counter-balanced each other in large measure.

**3. Area and period covered.**—The canvass covered the 48 States and the District of Columbia. The returns relate to the calendar year 1929, or to the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business within the year.

**4. Establishments covered—Type.**—The censuses for 1904 and subsequent years were confined, in general, to manufacturing establishments proper, exclusive of the so-called neighborhood, household, and hand industries.

The inquiries have covered a few industries, however, which are not engaged in manufacturing in the sense in which the term is generally understood, the most important example being printing and publishing. The censuses for 1899 and for prior years covered hand trades as well as industries operated on a factory basis. Beginning with the census for 1904, the following classes of establishments have been omitted:

*a.* Establishments which were idle throughout the year or reported products valued at less than \$500. (See sec. 5, below.)

*b.* Establishments engaged principally in the performance of work for individual customers, such as custom tailor shops, dressmaking and millinery shops, and repair shops. (This does not apply to large establishments manufacturing to fill special orders.)

*c.* Establishments engaged in the building industries, other than those manufacturing building materials for the general trade.

*d.* Establishments engaged in the so-called neighborhood industries and hand trades, in which little or no power machinery is used, such as carpentry, blacksmithing, harness making, tinsmithing, etc.

*e.* Cotton ginneries.

*f.* Small grain mills (gristmills) engaged exclusively in custom grinding.

*g.* Wholesale and retail stores which incidentally manufacture on a small scale, particularly where it is impossible to obtain separate data for the manufacturing and for the mercantile operations.

*h.* Educational, eleemosynary, and penal institutions engaged in manufacturing.

**5. Establishments covered—Size.**—At the biennial censuses, with certain exceptions explained in the following paragraph, data have been obtained only from establishments reporting products to the value of \$5,000 or more.

In order to reduce the cost of the work and to facilitate the preparation of the statistics, no data (except in regard to wage earners and products, for 1921, and in regard to products only for certain industries, for 1923 and 1925) were collected for establishments with products valued at less than \$5,000. At the quinquennial censuses, however, data on all subjects covered by the census were obtained from all establishments with products valued at \$500 or more. This change in the minimum value-of-products limit, which resulted in a 21.6 per cent reduction in the number of establishments in regard to which general and detailed statistics were compiled at the census for 1921, did not otherwise materially impair the comparableness of the biennial and quinquennial figures, since 99.4 per cent of the total wage earners and 99.7 per cent of the total value of products reported at that census were contributed by the establishments reporting products to the value of \$5,000 or more.

**6. Definition of establishment.**—As a rule, the term “establishment” signifies a single plant or factory.

In some cases, however, it refers to two or more plants operated under a common ownership and located in the same city, or in the same county but in different municipalities or unincorporated places having fewer than 10,000 inhabitants. On the other hand, separate reports are occasionally obtained for different industries carried on in the same plant, in which event a single plant is counted as two or more establishments.



**7. Classification by industries.**—Each establishment as a whole (a single plant being counted as two or more establishments in certain cases, as explained in the preceding paragraph) is assigned, on the basis of its product or group of products of *chief value*, to some one industry classification.

The products reported for a given industry, on the one hand, usually include minor products different from those covered by the industry designation, and, on the other hand, may not include the entire output of products normally belonging to the industry, because some of this class of commodities may be made as secondary products by establishments classified in other industries. In the case of every industry the value of the minor or secondary products not normally belonging to it and that of commodities normally belonging to it but made as secondary products by establishments engaged primarily in other lines of manufacture, offset one another to a greater or less extent; so that in most cases the total value of products of an industry, as reported, does not differ greatly from the value of the total output, in all industries, of the classes of products covered by the industry designation.

**8. Persons engaged.**—The distinction between salaried officers and employees, on the one hand, and wage earners, on the other, depends primarily on the character of work done. The first group includes, in general, supervisory and office employees, and the second group, manual workers.

In the salaried group are included principal officers of corporations; managers, superintendents, and other responsible administrative employees; foremen and overseers who devote all or the greater part of their time to supervisory duties; and clerks, stenographers, bookkeepers, and other clerical employees on salary. Wage earners are defined as skilled and unskilled workers of all classes, including pieceworkers employed at the plant, and foremen and overseers in minor positions who perform work similar to that done by the employees under their supervision.

In the case of employees other than wage earners, the number reported for December 14, or for the nearest representative day, is treated as equivalent to the average for the year, since, as a rule, there is little variation from month to month in the number of employees of this class. For wage earners, the number shown by the pay roll for the week which included the 15th day of each month, or for some other representative week, is reported, and the average for the year is calculated by dividing the sum of the numbers reported for the several months by 12. The sex distribution of the average number of wage earners has been calculated by using the ratio between the numbers of male and of female wage earners reported as employed on December 14, or on the nearest representative day.

The numbers of the two classes of officers and employees of central administrative offices (a "central administrative office" is an office which operates one or more manufacturing plants located elsewhere than in the city in which the office is located), by sex, are given, for 1929, in a footnote on the table presenting statistics of persons engaged, by sex; and the total number and compensation of such employees are given in a footnote on Table 3, which presents combined general statistics for all industries. The corresponding figures for 1919 and earlier years were not recorded separately; but data for central-administrative-office employees are included in the item for "Salaried officers and employees" for 1919 and earlier years, in the table giving statistics of persons engaged, by sex. The figures for 1929 as presented in the footnotes on Tables 3 and 9 understate somewhat the true numbers and compensation of the central-administrative-office employees, for the reason that some manufacturing companies do not report such employees separately, but include them with the salaried personnel employed directly in connection with the operation of their plants.

No central-administrative-office employees were reported for Arizona, New Mexico, North Dakota, or Wyoming.

**9. Salaries and wages.**—These items represent, respectively, the total compensation of salaried officers and employees and the total compensation of wage earners (including those employed on a piece-price basis).

**10. Cost of materials, etc.**—This section relates to cost of materials, containers for products, fuel, and purchased electric energy used during the census year. (For exceptions, see secs. 2 a and 2 b, p. 737.)

For the 1929 census, the cost of materials and containers for products was reported as one item, the cost of fuel as another, and the cost of purchased electric energy as a third; for 1927, the cost of materials and containers was reported as one item and the combined cost of fuel and purchased electric energy as another; for 1925, 1923, and 1921, the combined cost of materials, containers, fuel, and electric energy was reported as a single item. For the quinquennial censuses

(covering the period from 1899 to 1919), the cost of materials and containers was reported as one item and the combined cost of fuel and "rented power" as another. The cost of fuel covers coal, fuel oil, gasoline, gas, etc.

**11. Value of products.**—The amounts under this heading for 1929 represent, for the majority of the industries, the selling value, *at the factory*, of all products *shipped or delivered*, but for 76 industries, including some of the most important ones, they represent products *manufactured*, whether sold or not. For prior census years the value figures for all industries represent products *manufactured*.

The value of products is not a satisfactory measure of the importance of a given industry, because only a part of this value is actually created within the industry. Another part, and often a much larger one, is contributed by the value of the materials used.

**12. Duplication in cost of materials and value of products.**—The total cost of materials and the total value of products for all industries include a large amount of duplication due to the use of the products of certain industries as materials by others.

To illustrate: The total value of flour produced by flour mills, as reported to the Bureau of the Census, enters into the aggregate value of products of all industries for each State and for the United States as a whole. A considerable part of the output of such mills is, however, sold to bakeries, and its value is, of course, included in the value of bread and other products reported to the Bureau of the Census by the bakeries. Thus the value of a large part of the flour produced appears twice in the total value of products of all industries. Similarly, the cost of the wheat consumed in grinding the flour sold to bakeries is included directly in the cost of materials as reported by the flour-mill industry and indirectly in the cost of the materials reported by the bakery industry.

In some cases the products of certain establishments are used as materials by others within the same industry, but as a rule the cost of materials and values of products as shown for individual industries include little or no duplication.

The net value of manufactured products (at f. o. b. factory prices) in the form in which they reach the ultimate consumer has been estimated, for the United States as a whole, at \$47,243,000,000, or 67 per cent of the gross total of \$70,434,863,443. The corresponding percentages for individual States would, of course, vary somewhat.

**13. Value added by manufacture.**—For some purposes, the most satisfactory measure of the importance of an industry is the "value added by manufacture"—that is, the increment created by the manufacturing processes.

This value measures the net addition to the value of commodities in existence—i. e., raw materials, semimanufactured materials, and fuel. It is calculated by deducting the cost of materials, containers, fuel, and purchased electric energy used from the value of the products. The cost of purchased energy was included in the amount deducted at former censuses because it was included with the cost of fuel as reported by the manufacturers but was not given separately. At the census for 1929 the two items were reported separately for the first time; but in order to preserve, so far as possible, the comparableness of the statistics for 1929 with those for preceding census years, the cost of purchased electric energy has been included again in the amount deducted.

**14. Other standards of measurement.**—In addition to value added by manufacture, two other fairly reliable standards by which to measure growth or decline in manufacturing industries are found in quantities of products and in numbers of wage earners.

The quantities (or numbers) of individual classes of products, where these are given for different census years in such form as to be truly comparable, afford the best of all standards, but they are not available for all industries. The number of wage earners employed is also a fairly satisfactory standard, but it must be remembered that, on the one hand, in some industries mechanical processes have displaced hand labor to such an extent as to make possible a marked increase in production with no increase in the number of wage earners, while on the other hand, the average number of hours of work per week has been decreasing for many years.

**15. Profits and production costs.**—Manufacturers' profits can not be calculated from census statistics, for the reason that these statistics do not show total production costs.

Costs for which data have not been collected comprise depreciation, interest insurance, rent, taxes, and other miscellaneous expense items.

**16. Price changes.**—In comparing the figures for cost of materials, value of products, and value added by manufacture for different census years, price changes should be taken into account. To the extent to which this factor was influential, the figures fail to afford true indexes of the actual increase or decrease in manufacturing activities.

**17. Horsepower.**—Under this head are shown the number and the rated horsepower capacity of prime movers—engines, turbines, and water wheels—and of electric motors driven by purchased energy.

The power of motors driven by energy generated in the establishment reporting is not included, since this power duplicates that of the prime movers which generate the energy. The amount of power in actual use is, of course, considerably less than the rated horsepower capacity of engines, water wheels, etc.

**18. Industrial area.**—This term signifies an area having as its nucleus an important manufacturing city and comprising the county in which the city is located, together with any adjoining county or counties in which there is a great development of manufacturing industry. The number of wage earners employed in each such area is at least 40,000.

The industrial area must not be confused with the "metropolitan district," as established for population-census purposes, which includes, together with the central city or cities, all the adjacent and contiguous civil divisions having at least 150 inhabitants per square mile. Each industrial area comprises one or more *entire counties*, whereas nearly all metropolitan areas include parts of counties.

**Detailed reports on manufactures.**—The manufactures statistics presented in the Abstract have been excerpted from the final reports of the Biennial-Decennial Census of Manufactures for 1929, which was taken as a part of the Fifteenth Decennial Census. These reports are published in the form of three quarto volumes, the contents of which are described below.

Volume I.—General Report—Statistics by Subjects.

Chapter 1. General Explanations.

Chapter 2. General Summary. (A part of this chapter has been published separately in pamphlet form.)

Chapter 3. Personnel.

Chapter 4. Size of Establishments.

Chapter 5. Type of Organization.

Chapter 6. Power Equipment.

Chapter 7. Fuel and Purchased Electric Energy Consumed. (This chapter has been published separately in pamphlet form.)

Chapter 8. Industry Groups.

Chapter 9. Industrial Areas, Counties, and Cities.

Chapter 10. Detailed Statistics.

Volume II.—Reports by Industries.

This volume is an assembly of the reports for the 326 industries covered by the census classification, together with a General Summary (identical with those in Volumes I and III) and tables giving statistics for the 16 major groups of industries. The industry reports have been published separately in pamphlet form, 83 in number, each covering a single industry or a small group of related industries.

Volume III.—Reports by States—Statistics for Industrial Areas, Counties, and Cities.

This volume is an assembly of the reports for the individual States, preceded by a General Summary (identical with those in Volumes I and II). Each of these State reports—all of which have been published separately in pamphlet form—gives statistics by industries for the State as a whole, for "industrial areas," and for counties and cities of industrial importance. The subjects covered (for the State as a whole) include personnel, hours of labor, size of establishments (as measured by number of wage earners and by value of products), type of organization, power equipment, and fuel consumption.

TABLE 1.—COMBINED SUMMARY FOR ALL MANUFACTURING INDUSTRIES:  
1849 TO 1929

YEAR	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, fuel, and purchased electric energy	Value of products	Value added by manufacture <sup>1</sup>
Factories, excluding hand and neighborhood industries:						
			<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1929 <sup>2</sup>	210,959	8,838,743	11,620,973,254	38,549,579,732	70,434,863,443	31,835,233,711
1927	191,866	8,349,755	10,848,802,532	35,133,136,889	62,718,347,289	27,585,210,400
1925	187,390	8,384,261	10,729,968,927	35,935,647,704	62,713,713,730	26,778,066,026
1923	196,309	8,778,156	11,009,297,726	34,705,647,749	60,555,998,200	25,850,300,451
1921	196,267	6,946,570	8,202,324,339	25,321,055,346	43,653,282,833	18,332,227,487
1919	214,383	9,000,059	<sup>3</sup> 10,461,786,869	37,232,702,390	62,041,795,316	24,809,092,926
1914	177,110	6,896,190	<sup>3</sup> 4,067,718,740	14,278,333,194	23,987,860,617	9,709,527,423
1914	272,518	7,023,655	4,067,718,740	14,358,935,014	24,216,514,573	9,857,579,559
1909	268,491	6,615,046	3,427,037,884	12,142,790,878	20,672,051,870	8,529,260,992
1904	216,180	5,468,383	2,610,444,953	8,500,207,810	14,793,902,563	6,293,694,753
1899	207,514	4,712,763	2,008,361,119	6,575,851,491	11,406,928,701	4,831,075,210
Factories and hand and neighborhood industries:						
1899	512,191	5,306,143	2,320,938,168	7,343,627,875	13,000,149,159	5,656,521,234
1889	355,405	4,251,535	1,891,219,696	5,162,013,878	9,372,378,843	4,210,364,965
1879	253,852	2,732,695	947,953,795	3,396,823,549	5,369,579,191	1,972,755,642
1869	252,148	2,053,996	620,467,474	1,990,741,794	3,385,860,354	1,395,118,560
1859	140,433	1,311,246	378,878,966	1,031,605,092	1,886,361,676	854,259,584
1849	123,025	957,059	236,735,464	553,123,882	1,019,106,616	463,982,734

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy.<sup>2</sup> For all establishments having products valued at \$5,000 or more.<sup>3</sup> For all establishments having products valued at \$500 or more.TABLE 2.—INDEXES AND RATIOS FOR POPULATION, WAGE EARNERS,  
PRODUCTION, AND POWER: 1899 TO 1929

CENSUS YEAR	INDEXES					RATIOS	
	Population	Wage earners	Production (quantity)	Production per wage earner	Horse-power <sup>1</sup>	Horse-power per 100 wage earners	Wage earners per 1,000 population
1929	162	188	295	157	431	486	73
1927	158	177	272	154	390	465	71
1925	154	178	<sup>2</sup> 269	<sup>2</sup> 151	359	427	73
1923	149	186	261	140	332	377	79
1921	145	147	170	116	( <sup>3</sup> )	( <sup>3</sup> )	64
1919	140	191	214	112	294	326	86
1914	131	146	169	116	224	323	70
1909	121	137	159	116	186	287	71
1904	110	114	122	107	133	248	65
1899	100	100	100	100	100	211	63

<sup>1</sup> Covers rated capacity of prime movers and of motors driven by purchased electric energy.<sup>2</sup> Revised.<sup>3</sup> No data.

TABLE 3.—COMBINED GENERAL STATISTICS FOR ALL MANUFACTURING INDUSTRIES: 1899 TO 1929

[The figures for 1899 cover all establishments with products valued at \$500 or more. The principal items for the years 1904 to 1919 and all items for later years refer to establishments with products valued at \$5,000 or more]

YEAR	Number of establishments	PERSONS ENGAGED IN MANUFACTURING INDUSTRIES			
		Total	Proprietors and firm members	Salaried officers and employees <sup>1</sup>	Wage earners (average for the year)
1929	210,959	10,330,728	133,210	1,358,775	8,838,743
1927	191,866	9,783,438	132,681	1,301,002	8,349,755
1925	187,390	9,773,051	133,054	1,255,736	8,384,261
1923	196,309	10,195,928	148,421	1,269,351	8,778,156
1921	196,267	8,265,821	172,871	1,146,380	6,946,570
1919	214,383	10,688,849	250,571	1,438,219	9,000,059
1914	177,110	8,117,895	259,172	962,533	6,896,190
1909	175,142	7,536,148	273,265	790,267	6,472,616
1904	145,033	6,197,259	225,673	519,556	5,362,030
1899	<sup>2</sup> 207,514	( <sup>3</sup> )	( <sup>3</sup> )	364,120	4,712,763

  

YEAR	HORSEPOWER (RATED CAPACITY) OF POWER EQUIPMENT			SALARIES AND WAGES		
	Total	Prime movers	Motors run by purchased energy	Total	Salaries <sup>1</sup>	Wages
1929	42,931,061	20,155,397	22,775,664	\$15,216,037,315	\$3,595,064,061	\$11,620,973,254
1927	38,825,681	19,693,371	19,132,310	14,078,327,150	3,229,524,618	10,848,802,532
1925	35,772,628	19,903,800	15,868,828	13,651,784,805	2,921,815,878	10,729,968,927
1923	33,094,228	19,728,565	13,365,663	13,815,703,737	2,806,406,011	11,009,297,726
1921	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	10,765,427,145	2,563,102,800	8,202,324,339
1919	20,327,669	20,043,170	9,284,499	13,342,655,244	2,880,868,375	10,461,786,869
1914	22,230,899	18,406,175	3,884,724	5,342,157,369	1,274,438,629	4,067,718,740
1909	18,551,737	16,802,706	1,749,031	4,365,612,851	938,574,967	3,427,037,884
1904	13,296,394	12,854,805	441,589	3,184,884,275	574,439,322	2,610,444,953
1899	9,960,980	9,778,418	182,562	2,389,132,440	380,771,321	2,008,361,119

  

YEAR	COST OF MATERIALS, CONTAINERS FOR PRODUCTS, FUEL, AND PURCHASED ELECTRIC ENERGY			Value of products <sup>1</sup>	Value added by manufacture <sup>2</sup>
	Total <sup>3</sup>	Materials and containers <sup>3</sup>	Fuel and purchased energy		
1929	\$38,549,579,732	\$36,683,414,013	\$1,866,165,719	\$70,434,863,443	\$31,885,283,711
1927	35,133,136,889	33,235,799,366	1,897,337,523	62,718,347,289	27,585,210,400
1925	35,935,647,704	( <sup>4</sup> )	( <sup>4</sup> )	62,713,713,730	26,778,066,026
1923	34,705,697,749	( <sup>4</sup> )	( <sup>4</sup> )	60,555,998,200	25,850,300,451
1921	25,321,055,346	( <sup>4</sup> )	( <sup>4</sup> )	43,653,282,833	18,332,227,487
1919	37,232,702,390	35,594,463,485	1,638,238,905	62,041,795,316	24,800,092,926
1914	14,278,333,194	13,612,435,727	665,897,467	23,987,860,617	9,709,527,423
1909	12,064,573,039	11,494,505,215	570,067,824	20,449,588,023	8,385,014,984
1904	8,438,860,722	8,113,992,896	324,867,826	14,617,774,351	6,178,913,629
1899	6,575,851,491	6,368,711,944	207,139,547	11,406,926,701	4,831,075,210

<sup>1</sup> Data for employes of central-administrative offices are included for 1921 and earlier years but not for 1923 and subsequent years. For 1929, 208,363 employes, \$600,437,331; 1925, 84,646, \$225,512,798; 1923, 86,378, \$207,840,169. No data collected for 1927.

<sup>2</sup> Not comparable with figures for later years. See headnote.

<sup>3</sup> No comparable data available for proprietors and firm members.

<sup>4</sup> No data.

<sup>5</sup> The aggregates for cost of materials and value of products include large but indeterminate amounts of duplication due to the use of the products of some industries as materials by others.

<sup>6</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy.

<sup>7</sup> Not reported separately.

TABLE 4.—SUMMARY, BY

[For totals for all industries, see Table 6. The figures for 1919 cover all establishments reporting prod covered—

	INDUSTRY		NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
			1929	1919	1929	1919	1929	1919
1	Agricultural implements.....	293	521	41,663	54,368	128,499	128,249	
2	Aircraft and parts.....	132	31	14,710	3,543	16,505	12,512	
3	Alcohol, ethyl, and distilled liquors.....	30	34	1,484	1,380	17,447	16,494	
4	Aluminum manufactures.....	150	83	21,210	11,402	107,846	30,280	
5	Ammunition and related products.....	21	42	7,223	22,816	17,061	39,128	
6	Artificial and preserved flowers and plants.....	191	224	3,216	4,138	625	468	
7	Artificial leather.....	17	17	2,590	2,011	14,650	4,952	
8	Artists' materials.....	68	58	1,167	926	3,397	3,208	
9	Asbestos products, other than steam packing or pipe and boiler covering.....	67	46	8,092	3,654	40,458	9,657	
10	Asphalted-felt-base floor covering <sup>2</sup> .....	14	-----	2,345	-----	11,092	-----	
11	Awnings, tents, sails, and canvas covers.....	1,002	895	7,162	6,028	4,995	4,571	
12	Bags, other than paper, not made in textile mills.....	202	216	11,828	10,756	19,159	9,076	
13	Bags, paper, exclusive of those made in paper mills.....	95	75	6,970	4,168	13,416	4,429	
14	Baking powders, yeast, and other leavening compounds.....	48	88	3,006	3,331	42,788	20,071	
15	Baskets and rattan and willow ware, not including furniture.....	273	375	9,353	4,533	20,180	6,319	
16	Belting other than leather and rubber, not made in textile mills. <sup>3</sup> .....	9	-----	255	-----	1,648	-----	
17	Belting, leather.....	207	172	2,602	2,765	6,826	7,012	
18	Beverages <sup>4</sup> .....	5,154	-----	28,281	-----	149,166	-----	
19	Billiard and pool tables, bowling alleys, and accessories.....	40	49	1,390	2,101	6,402	5,261	
20	Blacking, stains, and dressings.....	170	220	1,617	2,455	3,317	2,446	
21	Bluing.....	20	57	105	360	1,649	423	
22	Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	117	144	16,175	17,997	66,343	49,959	
23	Bone black, carbon black, and lampblack.....	77	35	1,915	675	11,268	1,857	
24	Bookbinding and blank-book making.....	1,108	1,113	24,754	20,361	21,741	11,037	
25	Boot and shoe cut stock, not made in boot and shoe factories.....	210	252	9,499	9,715	15,828	8,448	
26	Boot and shoe findings, not made in boot and shoe factories.....	382	427	10,376	8,941	20,259	9,970	
27	Boots and shoes, other than rubber.....	1,341	1,449	205,640	211,049	140,329	115,886	
28	Boots and shoes, rubber.....	22	25	25,659	32,875	62,603	49,400	
29	Boxes, cigar, wooden.....	118	189	4,374	5,218	5,518	5,009	
30	Boxes, paper, not elsewhere classified.....	1,249	1,201	55,654	55,862	80,064	54,675	
31	Boxes, wooden, except cigar boxes.....	792	1,140	30,554	42,445	137,261	143,583	
32	Bread and other bakery products.....	20,785	25,095	200,841	141,592	355,523	165,711	
33	Brooms.....	407	1,034	4,542	6,313	4,672	6,037	
34	Brushes, other than rubber.....	303	379	7,261	7,968	11,915	7,307	
35	Butter.....	3,527	3,738	19,097	17,641	164,413	94,862	
36	Buttons.....	242	557	9,034	15,577	14,615	15,706	
37	Candles.....	20	19	781	541	1,971	597	
38	Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	348	475	13,612	12,437	21,692	25,830	
39	Canning and preserving: Fruits, and vegetables; pickles, jellies, preserves and sauces.....	2,997	3,805	98,866	77,486	224,097	154,631	
40	Car and general construction and repairs, electric-railroad repair shops.....	446	624	29,475	31,272	76,424	53,805	
41	Car and general construction and repairs, steam-railroad repair shops.....	1,851	1,744	368,681	484,437	1,076,723	591,070	
42	Carbon paper and inked ribbons <sup>5</sup> .....	57	-----	1,251	-----	3,642	-----	
43	Cardboard, not made in paper mills.....	13	16	609	1,425	1,549	3,251	
44	Card cutting and designing.....	70	75	2,338	1,148	3,909	743	
45	Carpets and rugs, rag.....	94	339	1,829	2,016	2,416	2,659	
46	Carpets and rugs, wool, other than rag.....	67	75	32,623	22,933	65,205	37,593	
47	Carriage, wagon, sleigh, and sled materials.....	45	258	681	6,509	4,760	23,672	
48	Carriages and sleds, children's.....	79	103	7,102	6,686	10,895	6,071	
49	Carriages, wagons, sleighs, and sleds <sup>6</sup> .....	88	-----	2,873	-----	14,589	-----	
50	Cars, electric and steam railroad, not built in railroad repair shops.....	147	106	40,015	55,218	238,455	167,180	
51	Cash registers and adding, calculating, and card-tabulating machines.....	46	65	16,840	16,544	28,257	14,645	

See footnotes at end of table.

MANUFACTURES

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INDUSTRIES: 1929 AND 1919

Units valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. (See Establishments Size, p. 738)

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	
58,942	66,704	113,969	144,572	277,854	304,961	163,885	160,389	1
21,924	4,907	27,368	7,127	71,153	14,373	43,785	7,246	2
2,131	1,717	35,046	19,556	54,285	31,854	19,239	12,199	3
29,693	13,327	94,036	49,272	153,457	75,278	59,421	26,006	4
8,273	23,588	19,842	38,102	43,809	88,038	23,987	49,937	5
3,218	3,741	5,527	7,005	14,425	16,143	8,898	9,139	6
3,956	2,163	22,268	18,132	32,961	26,282	10,693	8,150	7
1,429	896	4,155	2,687	9,460	5,508	5,304	2,820	8
10,777	3,732	25,408	12,948	56,164	23,978	30,756	11,030	9
3,501	-----	14,279	-----	31,889	-----	17,610	-----	10
8,559	5,859	25,328	26,961	49,237	45,690	23,909	18,729	11
9,645	7,757	144,275	176,018	170,176	214,059	25,900	38,042	12
6,661	3,663	43,238	33,350	64,621	47,264	21,383	13,914	13
4,847	3,555	22,598	26,635	52,337	46,230	29,738	19,595	14
6,671	3,369	8,820	4,904	22,851	11,821	14,031	6,917	15
299	-----	1,328	-----	2,789	-----	1,461	-----	16
3,550	3,260	20,680	28,157	35,632	40,481	14,952	12,324	17
38,314	-----	103,026	-----	270,324	-----	167,298	-----	18
1,863	2,425	3,238	6,101	8,821	15,733	5,583	9,632	19
1,959	2,109	8,345	14,042	24,682	25,284	16,337	11,242	20
107	285	469	1,543	1,365	2,731	896	1,188	21
22,116	20,974	44,212	44,277	102,392	89,744	58,180	45,467	22
2,583	808	9,096	2,848	20,170	6,186	11,074	3,338	23
31,779	18,659	30,755	23,235	102,783	66,021	72,029	42,786	24
10,320	9,125	107,546	133,887	133,448	161,203	25,902	27,316	25
11,058	8,187	31,964	40,428	58,625	62,825	26,661	22,397	26
222,408	210,735	515,055	715,269	965,923	1,155,041	450,867	439,772	27
29,945	30,883	34,396	50,347	102,538	116,917	68,141	66,571	28
3,508	3,512	5,238	6,337	12,459	13,110	7,221	6,774	29
57,110	43,326	159,840	101,135	294,253	206,419	134,414	105,284	30
29,194	36,811	74,082	102,946	135,026	177,818	60,944	74,872	31
274,562	158,237	737,100	713,239	1,526,111	1,151,896	789,011	438,657	32
4,169	5,709	9,648	17,365	19,166	30,205	9,519	12,840	33
7,963	7,113	21,688	19,598	45,549	39,006	23,861	19,407	34
24,198	18,853	635,874	514,346	746,418	583,163	110,544	68,817	35
8,814	13,773	11,501	16,745	28,978	41,840	17,477	25,095	36
923	438	3,251	2,179	6,686	3,351	3,436	1,172	37
8,799	9,505	53,240	53,994	80,849	80,260	27,609	26,267	38
74,979	56,939	462,062	358,666	750,342	548,028	288,280	189,362	39
47,109	39,073	32,781	32,025	85,482	75,211	52,700	43,185	40
590,203	687,617	515,562	515,803	1,184,435	1,279,235	668,873	763,432	41
1,702	-----	7,991	-----	17,295	-----	9,304	-----	42
819	1,337	2,665	4,954	5,629	9,138	2,964	4,185	43
2,725	969	9,286	2,298	19,648	5,323	10,362	3,025	44
1,562	1,551	1,659	2,038	5,511	5,597	3,852	3,559	45
40,014	24,216	86,651	67,118	176,915	123,264	90,264	56,136	46
565	5,667	1,482	14,735	2,792	26,765	1,310	12,031	47
8,313	6,229	13,515	11,700	28,818	24,507	15,303	12,806	48
3,418	-----	8,458	-----	16,450	-----	7,992	-----	49
63,387	82,417	223,889	368,143	328,220	556,665	104,331	188,521	50
29,746	22,537	10,766	10,890	110,001	83,539	99,235	72,649	51

TABLE 4.—SUMMARY, BY INDUS

[See note at head

INDUSTRY	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
	1929	1919	1929	1919	1929	1919
	1 Caskets, coffins, burial cases, and other morticians' goods.....	414	351	13,033	11,890	39,609
2 Cast-iron pipe.....	72	59	19,741	12,625	69,757	28,741
3 Cement.....	174	123	33,368	25,524	1,183,989	488,808
4 Cereal preparations.....	121	105	6,488	7,634	66,291	46,992
5 Cheese.....	2,753	3,530	3,401	3,997	24,739	24,411
6 Chemicals, not elsewhere classified <sup>2</sup> .....	551	836	62,199	76,918	854,368	480,435
7 Chewing gum.....	37	62	2,265	3,190	10,360	6,172
8 China firing and decorating, not done in potteries.....	27	43	317	244	53	43
9 Chocolate and cocoa products, not including confectionery.....	59	48	6,249	9,083	63,236	33,414
10 Cigars and cigarettes.....	1,636	9,926	105,308	138,773	49,517	24,497
11 Clay products (other than pottery) and nonclay refractories.....	1,749	2,414	93,336	76,915	533,887	405,157
12 Cleaning and polishing preparations.....	429	499	2,713	1,955	10,609	4,510
13 Clocks, clock movements, time-recording devices, and time stamps.....	56	46	10,401	8,252	12,451	6,952
14 Clothing (except work clothing), men's, youths', and boys', not elsewhere classified. <sup>3</sup>	3,691	-----	149,868	-----	40,325	-----
15 Clothing, men's, buttonholes.....	32	107	292	484	104	176
16 Clothing, women's, not elsewhere classified.....	8,082	7,711	187,500	165,649	35,291	32,421
17 Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's. <sup>3</sup>	511	-----	38,201	-----	11,492	-----
18 Cloth sponging and refinishing.....	46	67	902	1,206	800	927
19 Coffee and spice, roasting and grinding.....	928	794	9,053	10,540	45,465	29,706
20 Coke, not including gas-house coke.....	153	278	20,552	29,319	393,211	224,879
21 Collapsible tubes <sup>1</sup> .....	17	-----	1,821	-----	2,272	-----
22 Collars, men's.....	15	39	2,952	11,103	1,281	5,276
23 Combs and hairpins, not made from metal or rubber.....	24	45	656	2,229	1,015	1,588
24 Compressed and liquefied gases <sup>1</sup> .....	354	-----	3,390	-----	85,293	-----
25 Concrete products.....	2,438	2,785	16,505	8,378	67,651	22,178
26 Condensed and evaporated milk.....	5,585	401	7,065	13,675	85,258	49,179
27 Confectionery.....	2,021	3,149	63,501	76,498	112,644	77,036
28 Coopers.....	586	1,099	10,691	13,219	33,885	30,688
29 Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	2,161	4,796	28,593	27,640	53,749	24,190
30 Cordage and twine.....	123	120	14,489	17,622	73,021	66,556
31 Cork products.....	35	62	3,842	3,545	14,829	8,556
32 Corn sirup, corn sugar, corn oil, and starch.....	35	56	6,730	7,705	84,686	52,036
33 Corsets and allied garments.....	213	188	13,664	18,415	6,048	6,956
34 Cotton goods.....	1,281	1,288	424,916	430,966	2,269,346	1,836,298
35 Cotton small wares <sup>3</sup> .....	202	-----	15,281	-----	27,308	-----
36 Crucibles.....	11	6	321	239	1,680	608
37 Cutlery (not including silver and plated cutlery) and edge tools.....	239	304	14,991	19,859	49,886	38,555
38 Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.....	172	244	5,450	6,437	13,672	11,756
39 Dental goods and equipment <sup>3</sup> .....	87	-----	4,559	-----	6,216	-----
40 Doors, shutters, and window sash and frames, metal.....	148	57	9,557	2,077	25,027	4,013
41 Druggists' preparations.....	429	524	10,688	15,568	19,448	12,670
42 Drug grinding.....	26	31	677	1,347	5,277	6,723
43 Dyeing and finishing textiles.....	732	628	79,327	55,985	304,057	159,857
44 Electrical machinery, apparatus, and supplies.....	1,802	1,404	323,722	212,374	893,519	438,082
45 Electroplating.....	534	515	5,928	3,024	24,015	6,788
46 Embroideries <sup>3</sup> .....	813	-----	6,622	-----	2,279	-----
47 Emery wheels and other abrasive and polishing appliances.....	67	60	3,873	5,601	18,113	12,963
48 Engines, turbines, tractors, and water wheels.....	199	370	61,148	77,617	287,079	190,005
49 Engraver's materials.....	19	21	313	174	1,493	733
50 Engraving (other than steel, copperplate, or wood), chasing, etching, and diesinking.....	189	478	2,240	1,878	2,965	1,750

See footnotes at end of table.



MANUFACTURES

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TRIES: 1929 AND 1919—Continued

of this table]

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	
10,411	11,451	39,850	31,595	88,282	64,377	48,932	32,782	1
22,552	14,705	34,289	25,387	80,261	50,235	45,971	24,849	2
48,849	33,195	95,242	79,510	267,509	175,205	172,267	95,755	3
8,876	8,509	101,472	117,838	175,223	159,223	73,752	41,385	4
4,588	4,509	92,727	129,425	110,645	143,456	17,918	14,030	5
94,080	105,062	363,577	301,519	738,048	614,279	374,472	312,760	6
2,733	2,680	23,231	25,202	60,160	51,240	36,929	26,038	7
420	244	640	311	1,554	807	914	558	8
7,778	9,270	79,549	101,754	119,541	139,258	39,991	37,504	9
85,623	111,313	356,778	353,297	1,066,909	773,662	710,131	420,365	10
100,918	78,256	81,699	67,488	294,935	208,423	213,236	140,935	11
3,356	1,898	19,399	12,924	50,780	26,703	31,381	13,780	12
12,432	7,862	10,675	7,178	42,166	23,380	31,491	16,202	13
179,769		440,505		901,104		460,599		14
314	515	61	123	574	1,090	513	967	15
243,851	195,296	934,414	680,407	1,709,581	1,208,543	775,167	528,136	16
26,647		83,552		138,450		54,898		17
1,457	1,565	88	178	3,361	3,691	3,273	3,513	18
10,606	9,201	332,150	243,899	424,345	304,792	92,195	60,893	19
33,389	42,299	281,592	224,267	416,348	316,516	134,756	92,249	20
1,732		5,386		8,913		3,527		21
2,263	7,431	3,630	19,434	8,740	47,565	5,110	28,131	22
641	1,809	1,007	3,169	2,482	6,566	1,476	3,398	23
5,378		14,529		52,190		37,661		24
22,688	9,311	34,035	13,913	92,901	33,664	58,866	19,751	25
8,796	14,278	163,787	282,595	209,110	339,507	45,323	56,911	26
56,443	54,461	215,192	252,434	393,270	447,726	178,077	195,292	27
11,706	14,082	41,516	58,521	64,842	88,286	23,326	29,715	28
43,255	33,867	112,648	80,899	222,485	160,314	109,837	79,415	29
12,834	14,700	54,573	89,705	91,455	133,366	36,882	43,661	30
4,209	3,387	12,603	9,135	23,023	16,282	10,421	7,147	31
9,873	11,962	104,285	130,329	165,984	186,256	61,699	55,927	32
12,446	13,062	36,035	38,816	76,802	75,542	40,767	36,726	33
324,289	355,475	898,029	1,277,786	1,524,177	2,125,272	626,148	847,487	34
15,449		33,636		65,170		31,534		35
430	257	1,035	1,046	2,945	2,146	1,809	1,101	36
17,651	20,048	14,789	19,477	78,661	66,630	63,872	47,152	37
6,925	7,078	16,371	18,527	42,247	37,397	25,876	18,871	38
5,359		17,327		35,180		17,853		39
17,065	2,730	30,178	4,578	72,160	10,877	41,982	6,299	40
12,452	12,162	43,776	55,138	124,778	114,593	81,003	59,455	41
841	1,526	5,675	11,556	9,669	16,938	3,994	5,351	42
94,245	57,190	235,712	174,743	465,821	323,968	230,103	149,225	43
456,378	233,189	971,018	425,098	2,300,916	997,968	1,329,898	572,870	44
9,537	3,794	4,799	2,639	23,728	10,390	18,929	7,750	45
7,868		6,609		25,287		18,678		46
5,820	5,879	12,417	12,228	32,154	30,949	19,738	18,721	47
98,705	105,435	202,900	217,551	457,218	464,775	254,317	247,224	48
448	212	1,795	1,484	3,129	2,248	1,335	764	49
3,212	2,392	2,583	1,927	10,934	7,351	8,351	5,423	50

TABLE 4.—SUMMARY, BY INDUS

[See note at head

	INDUSTRY	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
		1929	1919	1929	1919	1929	1919
1	Engraving, steel and copperplate, and plate printing.	456	421	10,130	7,014	8,506	5,353
2	Engraving, wood.....	27	55	142	235	54	67
3	Envelopes.....	171	106	10,367	8,129	13,077	7,124
4	Excelsior.....	66	95	1,241	1,242	10,667	10,332
5	Explosives.....	95	118	5,614	9,249	51,612	51,635
6	Fancy and miscellaneous articles, not elsewhere classified.	814	661	18,722	13,961	11,071	8,657
7	Feathers, plumes, and manufactures thereof.	39	216	257	3,504	100	502
8	Feeds, prepared, for animals and fowls <sup>3</sup> .....	750	-----	10,223	-----	170,482	-----
9	Felt goods, wool, hair, or jute.....	54	49	5,540	5,236	25,655	16,411
10	Fertilizers.....	638	600	20,926	26,296	166,984	125,939
11	Files.....	33	50	3,974	5,767	12,091	11,897
12	Firearms.....	21	26	6,838	11,287	15,427	26,167
13	Fire extinguishers, chemical.....	28	32	740	777	1,464	855
14	Fireworks.....	50	57	1,811	1,222	1,746	1,005
15	Flags and banners.....	54	79	938	1,065	577	778
16	Flavoring extracts and flavoring sirups.....	642	602	5,041	3,586	33,838	6,553
17	Flax and hemp, dressed.....	6	20	47	420	429	1,920
18	Flour and other grain-mill products.....	4,022	10,708	27,028	45,481	641,456	875,464
19	Food preparations, not elsewhere classified. <sup>3</sup>	862	-----	10,616	-----	36,716	-----
20	Forgings, iron and steel, not made in plants operated in connection with rolling mills.	218	261	20,882	29,135	147,491	104,870
21	Foundry and machine-shop products, not elsewhere classified.	8,605	10,934	454,441	482,767	1,804,886	1,040,265
22	Foundry supplies.....	59	76	853	906	9,396	6,327
23	Fuel: Briquettes and boulets.....	23	11	426	171	14,893	5,180
24	Fur goods.....	2,855	1,815	15,752	13,639	5,511	5,327
25	Furnishing goods, men's, not elsewhere classified.	598	487	26,888	18,944	7,036	5,659
26	Furniture, including store and office fixtures.	3,778	3,279	193,399	140,252	503,970	265,156
27	Furs, dressed.....	248	141	5,167	5,075	10,769	5,421
28	Galvanizing and other coating, not done in plants operated in connection with rolling mills.	65	52	1,125	1,665	2,266	1,571
29	Gas and electric fixtures; lamps, lanterns, and reflectors.	614	512	23,580	18,155	40,209	22,278
30	Gas machines, gas meters, and water and other liquid meters.	72	105	6,101	5,589	11,029	8,586
31	Gas, manufactured, illuminating and heating.	754	1,022	43,065	42,908	544,024	238,454
32	Glass.....	263	371	67,527	77,520	341,979	207,338
33	Glass products (except mirrors) made from purchased glass.	431	616	6,029	6,480	5,757	5,042
34	Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.	125	182	9,279	8,986	3,702	3,364
35	Gloves and mittens, leather.....	257	355	9,203	10,685	3,498	3,288
36	Glue and gelatin.....	74	62	2,993	4,264	23,584	16,979
37	Gold leaf and foil.....	75	87	1,177	950	383	408
38	Gold, silver, and platinum, reducing and refining, not from the ore.	69	87	931	644	4,230	3,141
39	Graphite, ground and refined.....	11	24	494	497	3,156	7,445
40	Grease and tallow, not including lubricating greases.	297	482	5,475	6,647	41,686	25,544
41	Haircloth.....	13	18	450	425	1,113	972
42	Hair work.....	59	198	359	1,084	44	119
43	Handkerchiefs <sup>3</sup> .....	105	-----	6,014	-----	2,409	-----
44	Hand stamps and stencils and brands.....	332	382	2,971	2,136	3,596	1,848
45	Hardware not elsewhere classified.....	485	585	52,306	46,180	112,705	74,240
46	Hat and cap materials, men's.....	112	133	2,564	3,009	5,164	4,927
47	Hats and caps, except felt and straw, men's.	576	709	5,826	7,539	1,796	1,687
48	Hats, fur-felt.....	159	176	16,539	18,510	19,894	20,377
49	Hats, straw, men's <sup>3</sup> .....	50	-----	3,380	-----	1,836	-----
50	Hats, wool-felt.....	14	40	2,028	1,448	2,811	2,694
51	Hones, whetstones, and similar products <sup>3</sup>	6	-----	174	-----	850	-----
52	Horse blankets, fly nets, and related products.	14	28	582	766	1,375	1,577

See footnotes at end of table.

TRIES: 1929 AND 1919—Continued

of this table]

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	
14,490	7,908	11,865	6,981	47,162	24,209	35,297	17,228	1
323	407	82	219	739	1,154	657	934	2
11,527	6,650	29,928	21,965	61,287	39,664	31,559	17,699	3
1,219	1,145	2,440	2,522	5,009	4,913	2,589	2,391	4
8,488	12,505	31,764	45,911	72,540	92,475	40,775	46,564	5
19,041	12,208	35,140	32,591	85,389	64,054	50,249	31,463	6
310	3,406	386	6,695	1,141	15,378	755	8,683	7
12,821	4,873	327,920	22,781	402,753	39,230	74,833	16,449	8
7,531	25,363	26,224	185,041	45,466	232,511	19,242	96,103	9
17,884	6,192	159,801	4,228	21,970	17,617	72,710	13,889	10
5,240	13,335	3,053	7,614	8,566	30,181	11,092	22,568	11
9,210	751	4,117	2,693	6,584	5,563	17,853	4,379	12
959	995	2,465	2,108	6,584	4,630	4,379	2,570	13
1,931	794	1,771	3,286	3,836	5,345	4,119	2,822	14
794	2,965	55,518	50,417	129,086	76,924	2,065	20,060	15
7,071	35	93	1,709	197	2,389	73,563	660	16
35	447	868,873	1,799,181	1,000,269	191,397	191,397	253,253	17
35,072	50,888	96,388	171,861	171,861	2,052,434	75,473	253,253	18
11,658	34,505	40,603	71,607	83,561	156,249	117,119	84,642	19
34,505	40,603	71,607	83,561	156,249	117,119	84,642	93,558	20
697,509	622,571	1,038,066	948,069	2,791,462	2,289,251	1,753,396	1,341,181	21
1,256	1,032	5,535	5,667	10,459	9,955	4,924	4,287	22
584	222	5,919	1,386	9,498	1,974	3,579	587	23
33,330	24,149	176,107	105,597	277,593	173,138	101,486	67,541	24
23,009	13,563	83,632	64,744	150,964	107,835	67,332	43,091	25
242,832	143,152	426,454	265,725	948,116	579,906	521,662	314,181	26
8,596	7,098	18,649	6,339	40,237	20,385	21,588	14,046	27
1,564	2,248	3,939	10,532	7,667	14,476	3,727	3,943	28
33,269	19,095	57,918	38,688	144,966	80,367	87,047	41,679	29
8,932	5,996	15,187	10,647	40,623	26,267	25,436	15,620	30
60,161	52,759	188,416	157,551	512,653	329,279	324,236	171,728	31
87,795	87,527	103,294	90,780	303,819	261,884	200,525	171,104	32
7,815	6,155	16,319	14,358	33,273	28,443	16,954	14,085	33
5,914	4,855	19,289	16,092	29,883	28,220	10,594	12,128	34
9,204	8,151	20,206	26,286	39,123	46,941	18,917	20,654	35
4,236	4,777	18,978	19,280	32,458	32,134	13,430	12,854	36
1,134	984	1,933	2,655	3,978	4,462	2,045	1,806	37
1,634	844	61,570	49,737	67,959	55,483	6,389	5,746	38
627	434	1,458	1,093	3,760	2,240	2,302	1,147	39
7,862	7,954	40,142	47,756	61,608	67,265	21,466	19,509	40
527	425	2,551	2,259	3,855	3,315	1,305	1,056	41
432	1,065	538	3,829	1,694	6,963	1,155	3,134	42
4,636	16,343	29,554	29,554	29,554	15,036	13,211	6,188	43
4,081	2,261	3,811	3,149	15,036	9,387	11,225	6,188	44
67,702	49,274	76,480	62,815	229,478	168,661	152,997	105,846	45
2,876	3,133	17,305	16,644	25,031	26,521	7,726	9,877	46
7,694	9,439	16,908	24,177	35,901	44,540	15,993	20,363	47
22,503	19,643	55,298	40,158	102,004	82,745	46,706	42,587	48
3,688	8,705	8,705	18,739	18,739	10,034	10,034	3,040	49
2,315	1,388	4,678	3,700	9,056	6,740	4,377	3,040	50
182	341	341	869	869	528	528	182	51
498	551	1,471	3,456	2,895	6,021	1,424	2,565	52

TABLE 4.—SUMMARY, BY INDUSTRY

[See note at head]

	INDUSTRY	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
		1929	1919	1929	1919	1929	1919
1	House-furnishing goods, not elsewhere classified.	964	467	15,794	7,853	16,866	11,857
2	Ice cream	3,150	3,475	22,399	19,155	230,882	102,646
3	Ice, manufactured	4,110	2,867	32,184	30,247	1,077,295	569,925
4	Ink, printing	147	90	2,448	1,988	20,300	10,229
5	Ink, writing	29	61	416	702	847	610
6	Instruments, professional and scientific	276	351	16,876	15,931	22,816	12,981
7	Iron and steel: Blast furnaces	105	195	24,960	41,660	7,532,530	5,399,574
8	Iron and steel: Steel works and rolling mills.	486	500	394,574	375,088		
9	Iron and steel, processed <sup>2</sup>	46		511		2,210	
10	Ivory, shell, and bone work, not including buttons, combs, or hairpins.	21	44	391	842	642	879
11	Jewelry	1,536	2,054	27,922	30,871	27,402	15,066
12	Jewelry and instrument cases	113	142	2,269	2,734	1,503	1,075
13	Jute goods	20	26	4,931	7,138	35,079	32,135
14	Knit goods	1,888	2,050	208,488	172,572	181,879	149,438
15	Labels and tags	153	119	4,474	5,227	6,473	4,033
16	Lace goods	42	44	6,854	6,490	10,466	9,078
17	Lapidary work	100	124	506	1,155	474	680
18	Lasts and related products	58	64	1,760	2,910	7,230	5,539
19	Leather goods, not elsewhere classified	392	503	6,035	8,945	3,196	3,840
20	Leather: Tanned, curried, and finished	471	680	49,932	72,476	229,660	217,761
21	Lime	237	476	8,554	11,405	90,276	51,735
22	Linen goods	16	10	2,195	1,890	11,006	6,069
23	Linoleum <sup>3</sup>	7		5,544		51,647	
24	Liquors, vinous	24	342	186	1,011	1,188	5,189
25	Lithographing	376	331	18,979	15,618	35,471	18,550
26	Locomotives, not made in railroad repair shops.	16	17	11,045	26,715	98,482	96,504
27	Lubricating oils and greases, not made in petroleum refineries. <sup>3</sup>	177		2,577		13,281	
28	Lumber and timber products, not elsewhere classified.	12,915	26,119	419,084	480,945	1,985,301	2,355,345
29	Macaroni, spaghetti, vermicelli, and noodles.	353	557	5,072	4,543	24,448	16,093
30	Machine-tool accessories and small metal working tools, not elsewhere classified. <sup>3</sup>	722		26,682		64,398	
31	Machine tools	280	403	47,391	53,111	141,778	100,294
32	Malt	28	55	590	1,352	18,098	27,483
33	Marble, granite, slate, and other stone products.	1,881	4,240	37,817	32,768	305,915	169,177
34	Matches	21	21	3,760	3,726	17,997	12,947
35	Mats and matting, grass and coir	7	12	467	1,073	1,293	1,670
36	Mattresses and bed springs, not elsewhere classified.	951	1,041	17,187	12,637	50,554	23,387
37	Meat packing, wholesale	1,277	1,304	122,505	160,996	524,989	358,522
38	Millinery <sup>3</sup>	1,293		32,206		10,176	
39	Minerals and earths, ground or otherwise treated <sup>3</sup>	88		1,679		39,117	
40	Mirror and picture frames	178	429	4,446	4,708	8,334	4,659
41	Mirrors, framed and unframed	304	186	4,782	2,599	8,414	4,233
42	Models and patterns, not including paper patterns.	804	928	6,778	6,949	12,378	13,750
43	Motion pictures, not including projection in theaters. <sup>3</sup>	142		10,784		49,732	
44	Motor-vehicle bodies and motor-vehicle parts.	1,154	2,515	221,332	132,556	824,705	256,770
45	Motor vehicles, not including motor cycles.	244	315	226,116	210,559	713,912	282,323
46	Motor cycles, bicycles, and parts	21	51	4,392	10,886	11,124	14,420
47	Mucilage, paste, and other adhesives, except glue and rubber cement. <sup>3</sup>	84		414		2,564	
48	Musical instrument parts and materials: Piano and organ.	67	113	3,090	11,009	11,099	15,716
49	Musical instruments and parts and materials, not elsewhere classified.	106	240	3,176	4,113	6,060	3,219
50	Musical instruments: Organs	62	68	2,389	1,941	4,740	3,245
51	Musical instruments: Pianos	81	191	9,970	22,957	27,193	28,697
52	Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.	55	65	2,027	3,355	9,096	8,971
53	Needles, pins, hooks and eyes, and snap fasteners.	43	92	6,242	9,294	6,694	8,423
54	Nets and seines	19	19	903	859	1,155	959

See footnotes at end of table.

MANUFACTURES

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TRIES: 1929 AND 1919—Continued

of this table]

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	
16,150	6,444	76,625	39,794	127,602	60,212	50,977	20,418	
33,803	21,699	155,964	116,375	328,414	189,483	172,450	73,108	2
42,399	34,002	39,808	42,878	210,952	137,005	171,144	94,127	3
3,957	2,575	19,205	14,661	42,750	26,244	23,545	11,583	4
480	596	1,993	3,320	4,595	6,434	2,602	3,114	5
22,682	17,500	28,411	19,495	87,746	58,137	61,335	38,642	6
41,959	73,769	610,294	621,286	771,425	794,467	161,132	173,180	7
689,016	637,637	1,904,083	1,680,576	3,365,789	2,828,902	1,461,706	1,148,327	8
878		1,089		3,865		2,777		9
425	735	517	1,294	1,260	2,817	743	1,523	10
38,980	35,864	79,805	110,451	177,387	203,939	97,582	93,489	11
2,473	2,148	3,324	3,506	8,827	8,126	5,502	4,620	12
4,276	6,436	11,968	17,709	21,870	34,443	9,902	16,734	13
210,714	125,200	456,701	427,096	899,717	713,140	443,016	286,044	14
5,869	4,550	10,556	11,275	28,042	24,244	17,487	12,969	15
7,670	6,087	10,112	13,076	29,237	29,397	19,125	16,321	16
1,002	2,838	8,235	19,363	11,942	30,051	3,708	10,688	17
2,569	3,416	2,315	3,933	7,690	12,471	5,375	8,538	18
6,760	9,415	18,013	30,036	35,951	52,953	17,938	22,917	19
63,414	88,205	337,598	646,522	481,340	928,592	143,742	282,070	20
9,476	10,869	13,908	14,297	35,816	33,970	21,908	19,674	21
2,185	1,636	5,214	4,190	9,737	6,998	4,522	2,808	22
8,560		27,489		57,250		29,761		23
278	1,014	609	8,116	2,448	17,454	1,839	9,338	24
32,022	18,201	38,992	27,718	121,014	73,151	82,022	45,433	25
17,994	38,799	52,808	72,376	83,858	156,270	31,050	83,894	26
3,739		39,571		69,584		30,013		27
421,585	489,419	419,603	470,960	1,273,472	1,387,471	853,869	916,511	28
5,384	4,168	27,336	25,110	47,074	37,057	19,738	11,947	29
51,085		26,993		144,411		117,418		30
76,410	66,179	64,284	59,034	244,578	212,400	180,294	153,366	31
1,057	1,845	18,924	31,613	23,603	39,340	4,679	7,728	32
63,041	38,355	57,638	49,524	192,164	129,165	134,526	79,640	33
4,118	3,060	12,526	6,853	20,351	18,496	7,825	11,643	34
440	811	685	2,103	1,692	4,861	1,007	2,758	35
22,584	12,805	61,527	49,209	123,280	83,953	61,753	34,744	36
165,867	209,489	2,974,128	3,782,930	3,434,654	4,246,291	460,526	463,361	37
42,715		98,090		195,693		97,604		38
2,188		8,938		17,409		8,471		39
5,752	4,775	6,533	7,227	19,238	18,385	12,705	11,157	40
6,942	2,819	15,659	12,499	31,843	20,831	16,184	8,332	41
13,234	10,318	5,314	6,396	30,621	25,300	25,307	18,905	42
24,800		38,441		184,102		145,661		43
366,503	178,956	856,986	362,027	1,537,930	692,171	680,944	330,143	44
366,579	312,166	2,401,512	1,578,652	3,722,793	2,387,903	1,321,282	809,252	45
6,264	12,763	11,281	25,986	23,895	53,106	12,613	27,120	46
547		3,669		6,638		2,970		47
3,597	10,467	4,248	16,693	11,883	36,790	7,635	20,096	48
4,581	3,985	3,825	4,445	14,274	12,506	10,449	8,062	49
3,604	1,979	3,091	2,217	11,323	5,973	8,232	3,756	50
14,001	25,474	18,866	54,365	42,501	107,088	23,635	52,723	51
2,553	3,398	5,956	8,875	12,855	17,583	6,899	8,709	52
6,566	8,810	6,188	10,227	22,031	29,305	15,843	19,078	53
769	561	3,789	3,648	6,164	5,114	2,375	1,466	54

TABLE 4.—SUMMARY, BY INDUS

[See note at head

	INDUSTRY	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
		1929	1919	1929	1919	1929	1919
1	Nonferrous-metal alloys and products, not including aluminum products.	1,225	1,252	79,183	78,512	506,273	277,713
2	Oil, cake, and meal, cottonseed.....	553	711	15,825	26,766	284,395	289,981
3	Oil, cake, and meal, linseed.....	29	26	2,715	2,173	31,191	17,621
4	Oils, essential.....	22	78	265	321	1,894	1,833
5	Oils, not elsewhere classified <sup>3</sup> .....	75	-----	1,234	-----	14,670	-----
6	Oilcloth.....	9	11	1,412	1,130	5,017	4,251
7	Oleomargarine, not made in meat-packing establishments.	41	42	1,534	2,851	6,670	9,435
8	Optical goods <sup>3</sup> .....	117	-----	9,701	-----	15,626	-----
9	Paints and varnishes.....	1,063	830	29,211	21,507	180,315	84,827
10	Paper <sup>3</sup> .....	685	-----	103,320	-----	2,968,431	-----
11	Pulp (wood and other fiber) <sup>3</sup> .....	198	-----	24,729	-----	67,145	35,369
12	Paper goods, not elsewhere classified.....	436	308	20,227	14,135	44,538	25,409
13	Patent or proprietary medicines and compounds.	1,522	2,467	16,434	17,444	30,393	-----
14	Paving materials: Asphalt, tar, crushed slag, and mixtures. <sup>3</sup>	126	-----	2,375	-----	16,193	-----
15	Peanuts, walnuts, and other nuts, processed or shelled. <sup>3</sup>	169	-----	7,933	-----	8,921	8,099
16	Pencils, lead (including mechanical).....	38	12	5,703	5,970	4,235	1,942
17	Pens, fountain and stylographic; pen points, gold, steel, and brass.	76	75	4,600	4,430	12,150	2,196
18	Perfumes, cosmetics, and other toilet preparations.	815	569	13,109	5,405	238,906	238,906
19	Petroleum refining.....	390	320	80,596	58,889	38,483	40,163
20	Phonographs.....	59	166	14,416	28,721	9,349	3,860
21	Photo-engraving, not done in printing establishments.	654	422	12,353	6,769	31,904	24,610
22	Photographic apparatus and materials.....	115	187	12,967	13,465	2,276	2,001
23	Pipes (tobacco).....	24	56	1,680	2,539	677,968	417,070
24	Planing-mill products (including general millwork), not made in planing mills connected with sawmills.	4,849	5,309	90,134	86,956	-----	-----
25	Plated ware.....	96	68	10,728	9,492	28,899	14,212
26	Plumbers' supplies, not including pipe or vitreous-china sanitary ware. <sup>3</sup>	255	-----	27,960	-----	100,821	-----
27	Pocketbooks, purses, and card cases.....	290	139	10,430	2,905	1,828	431
28	Pottery, including porcelain ware.....	313	340	35,409	27,934	61,868	29,040
29	Poultry killing, dressing, and packing, wholesale. <sup>3</sup>	485	-----	7,769	-----	13,500	-----
30	Printing and publishing, book and job.....	12,712	13,108	150,649	123,408	211,448	131,544
31	Printing and publishing, music.....	124	160	810	899	956	634
32	Printing and publishing, newspaper and periodical.	11,524	17,362	129,660	120,381	332,184	194,074
33	Printing materials, not including type or ink.	84	82	1,004	723	2,709	1,351
34	Pulp goods <sup>3</sup> .....	45	-----	3,558	-----	14,190	-----
35	Pumps (hand and power) and pumping equipment.	322	239	23,106	16,072	82,403	32,441
36	Rayon and allied products <sup>3</sup> .....	29	-----	39,106	-----	195,844	-----
37	Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.	188	122	9,784	5,786	28,493	13,029
38	Refrigerators, mechanical <sup>3</sup> .....	34	-----	16,883	-----	44,053	-----
39	Regalia, badges and emblems.....	77	115	1,757	2,223	1,105	1,321
40	Rice cleaning and polishing.....	60	86	1,589	2,113	22,901	25,340
41	Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.	102	178	6,027	8,871	33,791	39,247
42	Rubber goods other than tires, inner tubes, and boots and shoes. <sup>3</sup>	412	-----	40,226	-----	295,452	-----
43	Rubber tires and inner tubes <sup>3</sup> .....	91	-----	83,263	-----	463,257	-----
44	Saddlery and harness.....	260	1,823	3,339	10,411	4,698	8,205
45	Safes and vaults <sup>3</sup> .....	27	-----	3,033	-----	10,806	-----
46	Salt.....	58	86	5,458	6,495	57,711	42,051
47	Sand-lime brick.....	40	32	566	504	7,346	4,358
48	Sandpaper, emery paper, and other abrasive paper and cloth.	11	12	1,228	771	6,927	3,977
49	Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.	681	633	5,897	3,471	25,755	12,671
50	Saws.....	81	112	4,137	5,510	11,894	15,046
51	Scales and balances.....	59	79	4,118	5,432	9,738	7,441

See footnotes at end of table.

TRIES: 1929 AND 1919—Continued

of this table]

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	
116,944		600,411	367,752	909,804	559,455	309,393	191,703	1
11,203	20,615	249,020	495,192	298,376	581,245	49,356	86,053	2
4,098	3,052	101,563	100,578	119,927	120,638	18,364	20,061	3
326	391	3,804	3,903	6,653	5,698	2,849	1,795	4
1,950		36,896		45,160		8,264		5
2,144	1,201	14,925	11,141	23,107	15,437	8,183	4,296	6
2,264	3,184	30,890	66,043	46,522	79,816	15,632	13,773	7
12,634		11,859		40,562		28,708		8
42,245	24,118	334,132	217,112	568,976	340,347	234,844	123,234	9
140,398		574,608		967,186		392,578		10
32,679		148,753		238,928		90,176		11
23,810	12,667	100,369	65,295	182,648	107,285	82,279	41,989	12
18,781	13,749	94,770	88,819	318,907	212,162	224,137	123,343	13
3,731		13,589		29,275		15,687		14
3,080		39,529		49,609		10,079		15
6,292	5,299	10,756	9,074	27,773	24,134	17,017	15,061	16
5,304	4,177	11,459	7,172	34,211	19,478	22,752	12,306	17
13,763	3,983	58,299	26,147	193,441	59,613	135,142	33,466	18
131,177	89,750	2,031,341	1,247,908	2,639,665	1,632,533	608,324	384,624	19
17,826	33,963	37,823	59,740	96,849	158,548	59,526	98,808	20
31,831	10,424	11,008	5,038	77,382	29,389	66,379	24,351	21
20,507	14,900	30,393	33,807	102,827	88,393	72,435	54,586	22
1,961	2,555	1,749	3,497	5,558	11,554	3,809	8,056	23
116,423	91,977	296,008	299,266	553,583	500,438	257,575	201,173	24
14,942	10,913	16,751	17,767	55,430	41,635	38,679	23,868	25
37,067		49,033		129,674		80,641		26
15,229	3,062	35,352	7,557	68,628	14,550	33,276	6,993	27
43,656	29,820	27,007	20,794	110,622	74,919	83,615	54,125	28
7,285		106,866		130,161		23,296		29
251,577	141,851	266,749	211,384	1,006,657	599,192	739,907	387,808	30
1,314	927	1,542	2,124	15,240	14,592	13,698	12,468	31
253,399	144,348	391,738	300,385	1,738,299	924,163	1,346,561	623,768	32
1,649	799	2,185	1,620	8,579	4,919	6,394	3,299	33
4,592		12,068		27,220		15,152		34
34,920	19,732	66,802	36,070	164,009	85,402	97,207	49,332	35
44,697		33,335		149,546		116,217		36
13,182	5,809	26,451	11,949	60,483	26,049	34,032	14,100	37
26,196		72,413		161,566		89,153		38
1,825	1,800	3,227	4,287	7,927	9,395	4,700	5,108	39
1,449	1,932	38,444	76,634	48,794	90,038	10,350	13,405	40
8,952	10,344	61,392	52,588	108,506	85,895	42,115	33,308	41
50,279		114,674		244,746		130,071		42
127,082		429,607		770,177		340,570		43
3,714	10,849	13,834	52,443	23,339	83,713	9,504	31,270	44
4,439		6,382		19,362		12,970		45
6,735	7,353	14,188	16,028	37,869	37,514	23,681	21,486	46
776	502	945	575	2,971	1,663	2,026	1,088	47
1,740	841	8,375	5,061	17,219	9,304	8,343	4,243	48
8,850	4,679	81,372	43,940	103,246	56,610	26,375	12,670	49
5,727	6,281	6,884	11,792	22,615	31,461	15,731	19,668	50
5,995	6,534	7,438	6,994	30,381	20,641	22,943	13,647	51

TABLE 4.—SUMMARY, BY INDUS

[See note at head

	INDUSTRY	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
		1929	1919	1929	1919	1929	1919
		1	Screw-machine products and wood screws.	273	154	19,881	15,151
2	Sewing machines and attachments <sup>2</sup>	39		10,467		29,650	
3	Ship and boat building, steel and wooden, including repair work.	624	1,075	55,089	387,446	337,455	553,271
4	Shirts.	863	896	59,830	39,603	17,040	14,890
5	Shortenings (not including lard) and vegetable cooking oils. <sup>3</sup>	40		2,712		36,647	
6	Signs and advertising novelties.	1,239	779	20,000	10,432	19,627	7,714
7	Silk and rayon manufactures.	1,491	1,369	130,467	126,782	220,225	173,748
8	Silversmithing and silverware.	83	99	5,007	6,453	7,325	6,843
9	Smelting and refining, copper.	26	34	14,544	17,345	412,244	321,610
10	Smelting and refining, lead.	19	25	4,819	6,438	59,936	49,668
11	Smelting and refining, metals other than gold, silver, or platinum, not from the ore.	106	81	4,134	2,167	18,174	7,921
12	Smelting and refining, zinc.	30	39	11,618	13,796	123,901	73,604
13	Soap.	282	348	14,363	20,436	65,856	33,700
14	Soda-water apparatus.	54	66	2,764	2,599	5,271	4,131
15	Sporting and athletic goods, not including firearms or ammunition.	242	188	10,793	6,412	18,039	6,780
16	Springs, steel, except wire, not made in plants operated in connection with rolling mills.	86	112	5,842	8,981	24,318	16,560
17	Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.	582	433	40,000	35,237	98,184	52,767
18	Stationery goods, not elsewhere classified.	203	223	11,078	11,261	11,523	8,342
19	Statuary and art goods, factory product.	171	195	2,112	1,466	1,539	632
20	Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.	171	169	7,266	6,147	30,881	26,755
21	Steam fittings and steam and hot-water heating apparatus.	240	261	39,621	36,686	137,339	67,494
22	Steel barrels, kegs, and drums.	53	33	4,110	3,322	15,289	10,554
23	Stereotyping and electrotyping, not done in printing establishments.	230	171	6,487	3,664	21,347	9,498
24	Stoves and ranges (other than electric) and warm-air furnaces.	609	588	46,616	43,433	113,100	60,698
25	Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.	1,482	1,146	54,947	43,962	266,175	165,179
26	Sugar, beet.	82	85	7,496	11,781	146,393	127,994
27	Sugar, cane, not including products of refineries.	70	202	2,319	6,101	66,779	101,858
28	Sugar refining, cane.	21	20	13,912	18,202	98,637	52,541
29	Surgical and orthopedic appliances, including artificial limbs.	363	445	7,910	7,061	13,407	13,239
30	Suspenders, garters, and other elastic-woven goods, made from purchased webbing. <sup>4</sup>	91		4,341		1,180	
31	Tanning materials, natural dyestuffs, mordants and assistants, and sizes.	126	144	2,419	4,342	22,575	34,296
32	Textile machinery and parts.	378	432	27,019	31,823	66,539	41,744
33	Theatrical scenery and stage equipment.	55	17	547	149	618	104
34	Tin and other foils, not including gold foil. <sup>5</sup>	7		1,710		18,642	
35	Tin cans and other tinware, not elsewhere classified.	232	301	31,497	34,386	77,332	30,234
36	Tobacco: Chewing and smoking, and snuff.	152	365	10,811	18,324	15,467	18,893
37	Tools, not including edge tools, machine tools, files, or saws.	534	1,125	19,305	35,585	65,965	67,730
38	Toys (not including children's wheel goods or sleds), games, and playground equipment.	476	541	16,660	14,201	25,642	14,423
39	Trimmings (not made in textile mills) and stamped art goods for embroidering. <sup>3</sup>	639		7,934		3,068	
40	Trunks, suitcases, and bags.	467	587	11,359	11,470	10,220	7,696
41	Turpentine and rosin.	1,183	1,191	40,137	28,067	1,995	2,278
42	Type founding.	19	23	407	810	1,218	846
43	Typewriters and parts. <sup>6</sup>	26		16,945		23,383	
44	Umbrellas, parasols, and canes.	141	198	2,855	3,368	3,069	3,877
45	Upholstering materials, not elsewhere classified.	53	51	1,410	1,557	3,915	4,538
46	Vinegar and cider.	172	720	979	1,981	8,674	17,943
47	Wall paper.	56	48	4,705	4,262	12,740	8,123

See footnotes at end of table.



MANUFACTURES

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TRIES: 1929 AND 1919—Continued  
of this table]

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	<i>Thousand dollars</i>	
28,987	16,969	39,463	20,535	105,975	55,475	66,512	34,940	1
14,976		16,458		45,985		28,636		2
88,274	597,447	85,849	710,523	231,300	1,622,361	145,451	911,839	3
43,428	25,834	116,678	127,088	228,322	205,327	111,643	78,289	4
3,004		139,031		154,553		15,522		5
27,901	9,715	35,701	16,072	118,044	43,343	82,343	27,271	6
137,547	108,226	412,181	388,469	731,200	688,470	319,019	300,001	7
7,636	7,359	10,135	13,061	30,452	29,126	20,318	16,065	8
23,952	25,723	920,351	584,410	994,784	651,102	74,432	66,691	9
7,577	9,180	203,914	179,374	232,115	196,795	28,201	17,421	10
5,574	3,093	83,445	40,676	105,883	50,246	22,438	9,570	11
17,710	17,783	74,760	70,015	118,901	104,123	44,141	34,108	12
18,995	21,228	180,353	238,519	310,192	316,740	129,839	78,221	13
3,922	3,232	10,490	6,627	24,510	15,185	14,020	8,559	14
13,135	5,753	24,432	11,969	58,289	23,840	33,306	11,871	15
4,314	11,158	25,372	28,019	46,672	51,480	21,300	23,460	16
50,092	35,902	87,639	66,628	204,306	147,070	116,667	80,442	17
12,430	9,578	32,178	28,160	74,062	58,363	41,884	30,203	18
4,236	1,716	2,045	1,379	10,045	5,020	8,000	3,641	19
9,660	7,103	21,596	22,725	45,433	40,525	23,837	17,800	20
58,975	45,743	72,708	72,016	228,310	160,285	155,602	88,269	21
5,769	4,435	21,947	15,151	37,825	24,943	15,878	9,791	22
13,771	5,003	6,547	4,234	35,617	15,919	20,070	11,685	23
65,147	53,900	100,747	79,275	271,747	201,510	171,000	122,235	24
87,786	59,920	244,696	168,801	477,037	294,962	232,341	126,162	25
10,021	15,908	70,961	87,029	108,553	149,156	37,592	62,127	26
1,642	4,009	12,223	44,143	18,326	57,741	6,103	13,598	27
17,850	22,710	438,399	662,144	507,389	730,987	68,990	68,843	28
8,922	6,879	36,005	22,988	71,607	46,805	35,602	23,817	29
3,971		17,906		30,473		12,587		30
3,114	4,735	25,336	34,593	39,836	53,744	14,500	19,152	31
37,836	36,529	36,556	45,637	122,439	122,089	85,882	76,453	32
992	238	2,093	505	5,508	1,067	3,409	562	33
1,856		13,548		20,955		7,406		34
38,173	34,493	194,987	165,171	296,901	233,964	101,915	68,793	35
8,955	12,675	72,494	130,270	179,333	239,271	106,839	109,000	36
25,808	43,836	32,111	45,797	99,462	144,202	67,352	98,405	37
17,661	11,847	29,982	19,841	74,829	45,657	44,847	25,815	38
9,762		20,783		45,180		24,397		39
13,757	12,464	31,694	33,222	63,969	63,932	32,275	30,710	40
15,036	16,973	10,294	13,930	36,282	53,051	25,988	39,121	41
556	868	648	943	2,604	2,090	1,956	1,147	42
22,319		7,249		61,858		54,609		43
2,768	3,140	10,907	15,633	17,994	25,309	7,087	9,676	44
1,317	1,380	7,046	4,795	11,234	8,694	4,188	3,900	45
1,022	2,047	6,016	15,559	10,450	24,723	4,434	9,164	46
5,732	3,882	13,480	13,153	30,008	23,048	16,527	9,895	47

TABLE 4.—SUMMARY, BY INDUS

[See note at head

	INDUSTRY	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
		1929	1919	1929	1919	1929	1919
1	Wall plaster, wall board, insulating board, and floor composition, <sup>2</sup>	236	-----	7,462	-----	142,354	-----
2	Washing machines, wringers, driers, and ironing machines, for household use.	65	105	8,189	5,956	26,732	8,816
3	Waste.....	136	98	3,905	2,810	18,592	11,837
4	Watch and clock materials and parts, except watchcases.	17	27	311	582	197	252
5	Watchcases.....	40	33	3,404	3,900	5,581	4,275
6	Watch and watch movements.....	8	18	10,738	15,888	10,146	7,202
7	Whips.....	8	26	57	717	82	883
8	Windmills and windmill towers.....	15	31	1,554	1,932	4,491	4,686
9	Window and door screens and weather strip.	280	214	4,034	2,179	14,034	7,515
10	Window shades and fixtures.....	482	287	4,708	4,411	8,389	8,946
11	Wire, drawn from purchased bars or rods.....	81	66	22,467	19,741	150,620	119,301
12	Wirework, not elsewhere classified.....	547	558	22,388	15,224	48,864	29,036
13	Wood distillation and charcoal manufacture.	91	156	4,648	5,155	25,509	15,320
14	Wood preserving.....	199	73	13,077	3,978	57,913	16,104
15	Wood turned and shaped and other wooden goods, not elsewhere classified.	894	967	18,712	17,092	88,398	65,596
16	Woolen goods.....	460	560	58,474	62,957	195,247	172,191
17	Wool pulling.....	18	24	596	705	1,847	2,162
18	Wool scouring.....	21	33	1,302	2,177	8,241	9,710
19	Wool shoddy.....	50	78	1,762	2,566	15,940	16,567
20	Worsteds goods.....	264	292	88,485	103,830	372,536	294,028
21	Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.	50	50	11,417	10,426	68,630	23,925

<sup>1</sup> Not including salaried employees.<sup>2</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy.<sup>3</sup> No comparable data available for 1919.

MANUFACTURES

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TRIES: 1929 AND 1919—Continued

of this table]

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i> 10, 180	<i>Thousand dollars</i>	<i>Thousand dollars</i> 28, 313	<i>Thousand dollars</i>	<i>Thousand dollars</i> 70, 663	<i>Thousand dollars</i>	<i>Thousand dollars</i> 42, 350	<i>Thousand dollars</i>	
12, 072	6, 431	40, 707	23, 389	82, 330	40, 771	41, 623	17, 382	1
3, 316	2, 225	25, 633	22, 720	36, 014	30, 684	10, 381	7, 964	2
287	413	257	550	931	1, 342	674	792	3
4, 626	4, 001	4, 631	8, 206	13, 491	19, 619	8, 860	11, 413	4
12, 981	16, 599	10, 456	6, 393	34, 370	32, 044	23, 914	25, 652	5
48	582	80	1, 097	224	2, 986	144	1, 890	6
2, 145	2, 145	3, 572	4, 960	8, 640	9, 933	5, 069	4, 972	7
4, 958	2, 047	10, 513	4, 897	24, 452	10, 933	13, 939	6, 035	8
5, 624	3, 669	19, 785	18, 250	36, 965	29, 191	17, 179	10, 941	9
35, 110	29, 290	126, 182	102, 814	213, 997	162, 151	87, 815	59, 338	10
27, 912	15, 506	68, 144	50, 754	146, 805	90, 549	78, 661	39, 795	11
5, 293	5, 466	14, 791	20, 320	29, 594	33, 135	14, 803	12, 815	12
14, 940	4, 342	147, 703	23, 242	190, 945	33, 239	43, 242	9, 997	13
18, 617	14, 969	28, 429	26, 783	69, 620	56, 640	41, 191	29, 858	14
66, 014	66, 596	165, 582	217, 965	290, 939	364, 897	125, 057	146, 931	15
907	910	10, 917	12, 810	13, 648	17, 361	2, 731	4, 552	16
1, 771	2, 896	3, 022	7, 228	6, 241	13, 680	3, 220	6, 451	17
2, 109	2, 653	10, 127	16, 076	15, 345	23, 254	5, 218	7, 178	18
98, 138	101, 513	336, 649	447, 629	536, 067	700, 537	199, 418	252, 908	19
18, 762	14, 920	70, 121	51, 156	124, 659	81, 869	54, 538	30, 713	20
								21

<sup>4</sup> Because of changes in classification the figures for 1919 are not strictly comparable with those for 1929.  
<sup>5</sup> New classification at the census for 1929.

TABLE 5.—SUMMARY, BY DIVISIONS

[The 1919 figures for the United States have been adjusted for comparison with those for 1929 by deducting in the automobile-repairing industry (which was not canvassed for the Manufactures Census for 1929). Size, p. 738.]

	DIVISION AND STATE	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR) <sup>1</sup>		HORSEPOWER	
		1929	1919	1929	1919	1929	1919
1	United States.....	210,958	214,383	8,838,743	9,000,059	42,831,061	29,327,669
	GEOGRAPHIC DIVISIONS:						
2	New England.....	18,272	25,528	1,098,514	1,351,389	4,686,822	3,779,818
3	Middle Atlantic.....	64,730	88,360	2,562,340	2,872,653	11,623,682	8,512,612
4	East North Central.....	46,396	61,332	2,542,176	2,396,618	12,602,451	7,702,551
5	West North Central.....	17,792	29,166	474,115	499,635	2,210,192	1,592,809
6	South Atlantic.....	20,860	29,976	912,247	817,212	4,318,015	2,791,088
7	East South Central.....	9,860	14,655	377,870	329,226	1,999,354	1,414,190
8	West South Central.....	10,578	13,909	297,743	285,244	1,749,555	1,179,895
9	Mountain.....	4,319	7,612	102,492	109,216	938,689	685,192
10	Pacific.....	18,154	19,567	471,246	435,179	2,802,301	1,752,036
	NEW ENGLAND:						
11	Maine.....	1,568	2,995	70,159	88,651	679,153	545,613
12	New Hampshire.....	1,075	1,499	65,511	83,074	402,147	348,892
13	Vermont.....	927	1,790	27,421	33,491	163,940	184,327
14	Massachusetts.....	9,872	11,906	557,494	713,836	2,068,521	1,716,082
15	Rhode Island.....	1,701	2,466	126,068	139,665	463,822	319,688
16	Connecticut.....	3,129	4,872	251,861	292,672	909,239	664,316
	MIDDLE ATLANTIC:						
17	New York.....	39,395	49,330	1,105,966	1,228,130	3,986,781	2,926,963
18	New Jersey.....	8,388	11,057	442,328	508,686	1,645,408	1,140,654
19	Pennsylvania.....	16,947	27,973	1,014,046	1,135,837	5,991,493	4,445,095
	EAST NORTH CENTRAL:						
20	Ohio.....	11,855	16,125	741,143	730,733	4,340,575	2,885,007
21	Indiana.....	5,091	7,916	314,698	277,580	1,858,735	1,094,568
22	Illinois.....	15,333	18,593	691,555	653,114	2,807,001	1,654,947
23	Michigan.....	6,686	8,305	530,035	471,242	2,356,746	1,193,709
24	Wisconsin.....	7,431	10,393	264,745	263,949	1,239,394	874,320
	WEST NORTH CENTRAL:						
25	Minnesota.....	4,315	6,225	103,414	115,623	606,704	473,660
26	Iowa.....	3,317	5,683	81,678	80,551	366,760	242,820
27	Missouri.....	5,765	8,592	202,879	195,037	717,978	476,643
28	North Dakota.....	373	894	4,024	4,472	19,756	17,791
29	South Dakota.....	615	1,414	6,535	6,382	31,297	22,176
30	Nebraska.....	1,491	2,884	28,212	36,521	169,210	125,766
31	Kansas.....	1,916	3,474	47,373	61,049	298,487	233,945
	SOUTH ATLANTIC:						
32	Delaware.....	460	668	23,552	29,035	114,961	85,105
33	Maryland.....	3,231	4,937	131,099	140,342	659,823	406,637
34	District of Columbia.....	547	595	9,752	10,482	44,916	33,069
35	Virginia.....	3,287	5,603	120,273	119,352	646,251	419,738
36	West Virginia.....	1,488	2,785	85,326	83,036	650,199	328,455
37	North Carolina.....	3,797	5,999	209,826	187,659	839,945	549,808
38	South Carolina.....	1,659	2,004	108,777	79,450	527,326	365,468
39	Georgia.....	4,179	4,803	158,774	123,441	641,899	433,719
40	Florida.....	2,212	2,582	64,868	74,415	192,695	139,091
	EAST SOUTH CENTRAL:						
41	Kentucky.....	2,246	3,957	77,825	69,340	354,740	246,399
42	Tennessee.....	2,855	4,589	128,400	95,167	606,704	338,732
43	Alabama.....	2,848	3,654	119,559	107,159	785,330	628,287
44	Mississippi.....	1,911	2,455	52,086	57,560	252,580	200,772
	WEST SOUTH CENTRAL:						
45	Arkansas.....	1,731	3,123	44,205	49,954	223,034	212,219
46	Louisiana.....	1,989	2,617	87,345	98,265	480,404	387,233
47	Oklahoma.....	1,658	2,445	31,695	29,503	223,257	139,550
48	Texas.....	5,198	5,724	134,498	107,522	822,860	440,894
	MOUNTAIN:						
49	Montana.....	589	1,290	14,869	17,160	197,781	153,489
50	Idaho.....	562	922	15,648	13,917	105,787	73,840
51	Wyoming.....	248	576	6,258	6,634	46,677	17,864
52	Colorado.....	1,548	2,631	32,890	35,254	233,726	206,110
53	New Mexico.....	250	387	4,476	5,736	23,147	17,260
54	Arizona.....	348	480	10,550	8,528	180,637	103,958
55	Utah.....	651	1,160	15,601	18,868	123,737	92,797
56	Nevada.....	123	166	2,200	3,119	27,197	19,874
	PACIFIC:						
57	Washington.....	3,672	4,918	114,830	132,928	814,891	683,073
58	Oregon.....	2,463	2,707	65,505	58,559	418,324	303,795
59	California.....	12,019	11,942	290,911	243,692	1,569,086	765,168

<sup>1</sup> Not including salaried employees.

AND STATES: 1929 AND 1919

Data for establishments in all industries with products valued at less than \$5,000 and for all establishments. The 1919 figures for divisions and States have not been so adjusted. (See Establishments covered--

WAGES		COST OF MATERIALS, CONTAINERS, FUEL, AND PURCHASED ELECTRIC ENERGY		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE <sup>2</sup>		
1929	1919	1929	1919	1929	1919	1929	1919	
<i>Thousand dollars</i> 11,620, 973	<i>Thousand dollars</i> 10,461, 787	<i>Thousand dollars</i> 38,549, 580	<i>Thousand dollars</i> 37,232, 702	<i>Thousand dollars</i> 70,434, 863	<i>Thousand dollars</i> 62,041, 795	<i>Thousand dollars</i> 31,885, 284	<i>Thousand dollars</i> 24,809, 093	
1,346,392	1,436,437	3,158,416	3,951,908	6,398,215	7,183,071	3,239,798	3,231,163	2
3,640,420	3,464,931	11,183,619	11,424,096	21,359,574	19,854,773	10,175,955	8,430,677	3
3,738,804	2,992,931	11,689,799	10,621,687	21,663,289	17,737,480	9,973,490	7,115,793	4
589,162	546,173	3,507,392	3,778,125	5,377,383	5,187,065	1,869,991	1,408,940	5
825,903	778,027	2,811,055	2,596,265	5,269,276	4,455,152	2,458,221	1,858,887	6
348,733	298,710	1,090,015	977,825	2,014,443	1,642,391	924,428	664,567	7
316,475	293,022	1,851,630	1,547,994	2,802,092	2,277,861	950,462	729,868	8
144,486	141,901	869,856	610,239	1,239,911	922,676	370,055	312,437	9
670,599	581,229	2,387,799	1,868,242	4,310,681	3,167,610	1,922,882	1,289,368	10
74,200	94,225	217,367	254,569	391,751	456,822	174,385	202,253	11
70,514	79,326	185,402	239,528	332,535	407,205	147,132	167,677	12
33,810	34,084	66,263	95,173	143,523	168,108	77,260	72,935	13
694,805	766,623	1,681,433	2,260,713	3,392,162	4,011,182	1,710,729	1,750,468	14
144,197	137,405	342,290	415,989	666,368	747,323	324,078	331,334	15
328,865	324,682	665,601	685,937	1,471,876	1,392,432	806,214	706,494	16
1,650,379	1,458,207	5,004,636	4,943,214	9,978,556	8,807,005	4,973,920	3,923,791	17
1,010,596	600,658	2,165,727	2,270,473	3,937,157	3,672,065	1,771,430	1,401,592	18
1,379,444	1,406,066	4,013,256	4,210,409	7,443,861	7,315,703	3,430,606	3,105,294	19
1,102,166	944,652	3,138,099	2,911,948	6,027,903	5,100,309	2,889,804	2,188,361	20
418,771	317,043	1,403,431	1,174,951	2,539,894	1,898,753	1,136,463	723,803	21
1,024,870	801,087	3,352,054	3,498,270	6,282,092	5,425,245	2,930,038	1,936,974	22
840,505	639,708	2,589,374	1,919,243	4,656,718	3,466,188	2,067,344	1,546,945	23
352,491	290,441	1,206,842	1,127,275	2,156,682	1,846,984	949,842	719,709	24
132,418	127,107	768,218	883,090	1,173,214	1,218,130	404,995	335,040	25
102,327	90,117	574,394	520,241	893,213	745,473	323,820	225,232	26
240,369	196,515	1,139,658	1,056,467	1,917,155	1,694,208	777,497	537,751	27
5,687	5,401	39,684	44,489	55,322	57,374	15,637	12,884	28
8,132	7,905	75,016	42,986	97,698	62,171	22,681	19,185	29
36,881	46,067	364,175	480,774	484,168	596,402	119,994	115,268	30
63,348	73,060	546,247	750,088	751,613	913,667	205,367	163,579	31
29,063	37,265	80,491	85,433	149,642	165,073	69,151	79,640	32
148,835	147,867	696,986	549,347	1,119,082	873,945	422,097	324,597	33
15,513	13,189	36,200	30,940	88,973	68,827	52,773	37,886	34
118,089	120,006	365,824	371,541	745,910	643,512	380,086	271,971	35
115,295	101,840	261,398	270,941	513,012	471,971	251,615	201,030	36
160,868	126,680	618,912	526,906	1,311,924	943,808	693,013	416,902	37
73,223	62,565	226,542	227,986	385,892	381,453	159,351	153,467	38
110,435	101,180	427,805	440,490	722,454	693,237	294,449	252,747	39
54,582	67,433	86,898	92,680	232,386	213,327	135,488	120,647	40
88,644	67,034	266,559	235,716	502,639	395,660	236,080	159,945	41
115,877	81,355	407,611	344,767	730,509	556,253	322,898	211,486	42
102,005	99,066	302,253	300,664	560,378	492,731	285,125	192,067	43
42,208	51,256	113,592	96,678	220,918	197,747	107,325	101,069	44
39,503	47,186	116,648	102,813	210,903	200,313	94,255	97,500	45
83,867	94,406	438,540	431,404	685,037	676,190	246,497	244,786	46
41,277	35,026	306,501	312,606	455,905	401,363	149,404	88,757	47
151,827	116,404	989,940	701,171	1,450,246	999,996	460,307	298,825	48
24,215	24,743	209,845	122,152	271,094	166,665	61,249	44,513	49
22,452	18,548	51,864	43,949	96,352	80,511	44,489	36,562	50
10,255	11,189	62,720	42,251	96,348	81,445	33,628	39,195	51
43,640	42,975	183,740	174,870	306,071	275,622	122,331	100,752	52
5,565	8,658	10,419	7,727	21,697	17,857	10,278	10,129	53
15,075	12,015	167,714	92,645	200,002	120,769	32,289	28,124	54
19,699	21,455	157,902	110,154	214,629	156,933	56,727	46,779	55
3,585	4,318	25,652	16,491	33,717	22,874	8,065	6,384	56
160,671	194,968	428,413	443,178	795,562	809,623	367,149	366,445	57
86,829	81,094	205,227	206,206	411,769	366,783	206,542	160,577	58
423,099	305,207	1,754,158	1,218,859	3,103,350	1,981,205	1,349,191	762,346	59

<sup>2</sup> Value of products less cost of materials, containers, fuel, and purchased electric energy.

TABLE 6.—SUMMARY, BY INDUSTRY GROUPS: 1914 TO 1929

[Includes, for 1919 and 1914, data for establishments reporting products valued at less than \$5,000 but does not include data for the automobile-repairing industry (which was not canvassed at the manufactures censuses for 1921 and subsequent years). See Establishments covered—Size, p. 783.]

GROUP	Census year	Number of establishments	Wage earners (average for the year)	Horse-power	Wages		Cost of materials, containers, fuel, and purchased electric energy	Value of products	Value added by manufacture <sup>1</sup>	
					Thousand dollars	Thousand dollars				
All groups, total.....	1929	210,959	8,838,743	42,981,061	11,620,973	38,549,580	70,434,863	31,885,284		
	1927	191,866	8,349,755	38,825,681	10,848,803	35,133,137	62,718,347	27,585,210		
	1925	187,390	8,384,261	35,772,628	10,729,969	35,935,648	62,713,714	26,778,066		
	1923	196,309	8,778,156	33,094,228	11,009,298	34,705,698	60,555,998	25,850,300		
	1921	196,207	6,946,570	(*)	8,202,324	25,321,055	43,653,283	18,332,227		
	1919	274,598	9,041,311	29,327,669	10,461,787	37,288,731	62,193,427	24,904,695		
	1914	272,518	7,023,685	22,290,899	4,067,719	14,358,935	24,216,515	9,857,580		
	1. Food and kindred products:	1929	56,320	753,247	4,607,913	902,143	8,632,283	12,023,589	3,391,306	
		1927	49,787	679,520	4,134,973	823,388	8,113,433	11,015,860	2,902,427	
		1925	48,113	664,760	3,881,952	793,681	7,748,678	10,418,536	2,669,858	
1923		51,847	682,137	3,723,025	795,571	6,990,846	9,524,051	2,533,204		
1921		52,113	626,618	(*)	746,266	6,122,933	8,267,130	2,144,197		
1919		69,423	733,664	3,203,106	774,724	10,252,631	12,748,348	2,495,718		
1914		67,403	536,436	2,503,932	308,342	3,907,186	4,977,761	1,070,574		
1929		27,404	1,707,798	4,145,998	1,733,031	5,103,846	9,243,303	4,139,457		
1927		26,843	1,694,416	4,173,438	1,759,958	4,922,716	8,950,473	4,027,767		
1925		24,450	1,628,283	3,986,522	1,654,814	5,849,925	9,126,155	3,776,230		
2. Textiles and their products:	1929	26,763	1,715,293	3,785,401	1,743,798	5,894,441	9,462,282	4,067,841		
	1927	25,955	1,509,738	(*)	1,472,352	3,801,090	6,956,465	3,155,375		
	1925	28,451	1,610,003	3,248,364	1,481,143	5,379,388	9,210,933	3,831,545		
	1923	23,550	1,505,912	2,717,078	675,782	2,013,738	3,444,510	1,431,073		
	1921	26,812	876,383	3,674,204	939,383	1,686,183	3,591,765	2,005,582		
	1919	20,169	864,508	3,332,457	931,921	1,636,647	3,462,925	1,826,278		
	1914	21,926	921,266	3,472,970	978,472	1,725,351	3,689,127	1,963,776		
	1929	21,678	931,816	3,336,236	902,595	1,666,395	3,633,386	1,966,991		
	1927	21,398	703,360	(*)	670,462	1,197,628	2,456,857	1,259,229		
	1925	41,201	864,001	3,409,746	1,368,821	1,368,821	3,113,460	1,745,519		
4. Paper and allied products:	1929	43,466	865,294	3,176,436	446,897	765,936	1,610,453	850,617		
	1927	3,126	253,393	3,166,804	237,331	1,092,722	1,892,251	799,529		
	1925	2,972	224,437	2,813,694	272,154	1,082,363	1,785,998	703,634		
	1923	2,727	224,502	2,574,707	263,097	919,657	1,540,814	627,157		
	1921	2,635	219,026	2,313,562	250,144	878,764	1,456,970	578,206		
	1919	2,600	184,756	(*)	202,703	669,070	1,071,800	402,730		
	1914	2,677	208,115	1,967,446	212,724	720,908	1,250,445	529,537		
	1929	2,452	186,752	1,697,268	351,998	584,844	3,119,690	204,557		
	1927	2,522	357,938	649,441	58,371	766,434	3,170,140	3,403,655		
	1925	26,433	328,603	569,528	586,183	755,038	2,859,860	1,104,823		
5. Printing, publishing, and allied industries:	1929	26,826	315,284	486,087	542,419	694,577	2,596,871	1,902,294		
	1927	28,114	307,993	429,967	492,906	665,654	2,315,318	1,649,604		
	1925	29,777	282,500	(*)	434,728	603,300	2,078,387	1,416,404		
	1923	33,747	301,934	379,236	351,998	587,294	1,764,387	1,177,093		
	1921	34,757	286,254	341,805	207,721	266,435	937,125	670,990		
	1919	8,278	280,868	2,312,295	354,393	1,970,713	3,759,405	1,788,991		
	1914	7,541	253,436	1,848,309	317,908	1,803,085	3,351,892	1,648,808		
	1929	7,282	244,812	1,748,481	296,526	1,830,592	3,211,230	1,880,639		
	1927	7,197	246,527	1,654,228	288,834	1,702,944	2,933,562	1,230,617		
	1925	7,848	199,596	(*)	224,393	1,352,904	2,225,917	873,013		
6. Chemicals and allied products: <sup>2</sup>	1929	10,732	329,053	1,720,521	644,884	2,269,338	3,809,753	1,634,414		
	1927	11,461	258,413	1,459,062	299,020	1,011,125	1,964,630	955,505		
	1925	14,461	147,216	1,755,258	1,848,309	2,540,840	3,647,748	1,100,908		
	1923	14,818	141,655	1,513,314	217,485	2,202,699	3,060,226	797,527		
	1921	15,822	136,366	1,241,877	210,094	2,356,583	3,230,009	873,425		
	1919	1,650	138,330	1,092,914	212,882	1,981,370	2,778,888	797,518		
	1914	1,560	115,008	(*)	180,452	1,760,805	2,372,039	611,235		
	1929	1,684	131,759	709,597	185,599	1,635,290	2,289,170	653,590		
	1927	1,782	90,882	464,659	60,882	474,558	721,656	247,098		
	1925	525	149,148	821,312	207,306	578,678	1,117,460	538,783		
7. Products of petroleum and coal:	1929	516	141,097	790,622	198,074	660,370	1,225,077	584,707		
	1927	530	141,869	659,691	191,286	721,730	1,260,805	539,075		
	1925	529	137,868	605,634	182,084	501,163	953,518	457,355		
	1923	496	103,273	(*)	123,613	377,879	704,903	327,024		
	1921	477	158,549	429,273	193,763	594,344	1,138,216	543,872		
	1919	477	158,549	429,273	193,763	594,344	1,138,216	543,872		
	1914	342	74,022	109,242	44,167	163,035	300,994	137,959		

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy.

<sup>2</sup> Not called for on schedule.

<sup>3</sup> The comparableness of the figures for 1914 and 1919 with those for later years is affected by the decrease in the legal manufacture of alcoholic beverages resulting from the enactment of the national prohibition act.

TABLE 6.—SUMMARY, BY INDUSTRY GROUPS: 1914 TO 1929—Continued

(See note at head of this table)

GROUP	Cen- sus year	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Horse- power	Wages	Cost of materials, contain- ers, fuel, and pur- chased electric energy	Value of products	Value added by man- ufacture <sup>1</sup>
9. Leather and its manu- factures.	1929	4,277	318,415	436,342	359,413	1,131,942	1,905,977	774,035
	1927	4,265	315,991	419,591	364,447	1,088,641	1,869,305	780,664
	1925	4,243	314,025	413,173	355,346	1,012,881	1,763,709	750,829
	1923	4,868	344,545	412,998	388,630	1,083,345	1,880,086	796,740
	1921	4,813	280,071	(?)	314,412	934,398	1,544,185	609,788
	1919	6,397	349,362	382,537	363,453	1,713,807	2,610,231	896,423
	1914	6,758	307,060	311,194	169,358	753,135	1,104,595	351,459
10. Stone, clay, and glass products.	1929	8,514	328,417	2,854,402	432,817	526,340	1,561,415	1,035,075
	1927	8,673	350,017	2,709,131	464,273	594,774	1,612,549	1,017,774
	1925	8,478	353,036	2,348,157	467,012	603,427	1,640,652	1,037,225
	1923	8,317	351,692	1,936,054	453,567	573,472	1,563,121	989,648
	1921	8,347	252,990	(?)	307,065	428,259	1,033,091	604,832
	1919	12,599	302,810	1,584,917	332,726	422,611	1,111,746	689,135
	1914	14,790	335,824	1,493,976	206,055	240,813	618,700	377,882
11. Iron and steel and their products, not includ- ing machinery.	1929	6,640	880,882	9,200,822	1,380,987	3,862,873	7,137,928	3,275,055
	1927	6,340	834,967	8,322,730	1,263,812	3,544,615	6,197,595	2,652,980
	1925	6,063	850,783	7,518,726	1,283,841	3,734,085	6,460,222	2,726,138
	1923	6,353	892,185	7,259,009	1,324,173	4,152,741	6,827,670	2,674,929
	1921	6,251	571,426	(?)	730,875	2,140,171	3,455,541	1,315,370
	1919	7,617	857,764	6,429,697	1,243,726	3,423,280	5,887,844	2,464,564
	1914	6,326	617,776	4,587,572	421,746	1,315,690	2,137,113	821,423
12. Nonferrous metals and their products.	1929	7,522	314,741	1,570,217	443,467	2,465,444	3,657,058	1,131,614
	1927	6,761	272,667	1,226,411	383,185	1,783,213	2,677,107	893,894
	1925	7,006	276,616	1,162,140	382,652	1,948,438	2,839,550	891,112
	1923	7,501	297,798	1,171,192	395,079	1,767,638	2,637,160	869,522
	1921	7,853	212,680	(?)	256,893	886,285	1,406,089	521,795
	1919	10,441	304,768	953,109	359,171	1,737,234	2,519,032	781,798
	1914	9,808	239,542	550,903	154,580	964,556	1,329,834	365,278
13. Machinery, not includ- ing transportation equipment.	1929	12,955	1,091,269	3,647,343	1,634,166	2,694,380	7,043,380	4,349,001
	1927	11,982	883,508	2,995,296	1,284,133	2,053,942	5,348,724	3,294,782
	1925	11,807	858,843	2,714,377	1,225,859	1,985,367	5,020,281	3,034,914
	1923	12,147	907,707	2,300,443	1,253,743	1,891,524	4,727,818	2,836,294
	1921	12,395	662,277	(?)	832,783	1,361,163	3,235,075	1,873,912
	1919	14,821	998,484	2,080,325	1,240,487	1,973,458	4,768,673	2,915,216
	1914	13,457	618,737	1,256,908	412,406	662,967	1,582,408	919,442
14. Transportation equip- ment, air, land, and water.	1929	2,550	583,355	2,271,192	943,222	3,683,148	6,047,209	2,304,061
	1927	2,537	494,905	2,027,686	803,298	2,907,949	4,693,972	1,786,022
	1925	2,778	559,578	1,888,061	908,488	3,389,101	5,451,753	2,062,652
	1923	3,873	606,328	1,624,468	963,939	3,394,505	5,333,479	1,938,975
	1921	4,273	405,773	(?)	591,334	1,803,011	3,018,154	1,125,143
	1919	6,768	858,582	1,453,804	1,259,014	3,200,602	5,627,263	2,426,661
	1914	7,818	312,562	602,459	230,615	639,793	1,137,423	497,630
15. Railroad repair shops...	1929	2,297	398,156	1,153,147	637,311	548,344	1,269,917	721,573
	1927	2,309	428,672	1,110,821	648,908	545,492	1,289,695	744,203
	1925	2,363	457,755	942,243	668,192	563,646	1,332,679	769,033
	1923	2,348	523,430	798,005	772,968	631,358	1,520,093	888,734
	1921	2,326	418,285	(?)	671,956	506,571	1,267,343	760,771
	1919	2,368	515,709	644,875	726,690	547,829	1,354,446	806,617
	1914	2,011	365,902	478,893	253,150	261,438	552,618	291,180
16. Miscellaneous indus- tries.	1929	14,620	417,467	664,371	500,582	1,359,361	3,426,319	2,066,959
	1927	14,320	440,456	837,680	529,676	1,378,160	3,317,090	1,938,930
	1925	14,216	439,503	732,559	508,750	1,351,610	3,125,319	1,773,709
	1923	15,439	475,481	701,510	528,386	1,429,536	3,003,597	1,574,062
	1921	15,162	418,221	(?)	442,101	1,315,607	2,557,959	1,242,351
	1919	25,995	516,754	751,116	511,812	1,461,747	2,995,479	1,533,732
	1914	26,537	442,317	449,512	227,723	603,691	1,270,704	667,012

<sup>1</sup> Value of products less cost of materials, containers for products, fuel, and purchased electric energy.<sup>2</sup> Not called on schedule.

TABLE 7.—SUMMARY FOR PRINCIPAL INDUSTRIES, RANKED BY NUMBER OF WAGE EARNERS: 1929

INDUSTRY	Number of establishments	WAGE EARNERS		COST OF MATERIALS, FUEL, PURCHASED ENERGY, ETC.		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
		Average for the year	Rank	Amount	Rank	Amount	Rank	Amount	Rank
				Thousand dollars		Thousand dollars		Thousand dollars	
<b>Industries reporting 100,000 wage earners or more, total</b> .....	<b>97, 228</b>	<b>4, 725, 511</b>	---	<b>17, 491, 270</b>	---	<b>33, 598, 430</b>	---	<b>16, 105, 161</b>	---
Foundry and machine-shop products, not elsewhere classified.....	8, 607	454, 441	1	1, 038, 066	5	2, 791, 462	4	1, 753, 396	1
Cotton goods.....	1, 281	424, 916	2	898, 029	9	1, 524, 177	11	620, 148	13
Lumber and timber products, not elsewhere classified.....	12, 915	419, 084	3	419, 603	25	1, 273, 472	12	853, 869	6
Iron and steel: Steel works and rolling mills.....	486	394, 574	4	1, 904, 083	4	3, 365, 789	3	1, 461, 706	2
Car and general construction and repairs, steam-railroad repair shops.....	1, 851	368, 681	5	515, 562	17	1, 184, 435	13	668, 873	12
Electrical machinery, apparatus, and supplies.....	1, 802	328, 722	6	971, 018	6	2, 300, 916	6	1, 329, 898	4
Motor vehicles, not including motor cycles.....	244	226, 116	7	2, 401, 512	2	3, 722, 793	1	1, 321, 282	5
Motor-vehicle bodies and motor-vehicle parts.....	1, 154	221, 332	8	856, 986	11	1, 537, 930	9	680, 944	11
Knit goods.....	1, 888	208, 488	9	456, 701	20	899, 717	23	443, 016	19
Boots and shoes, other than rubber.....	1, 341	205, 640	10	515, 055	18	965, 923	19	450, 867	18
Bread and other bakery products.....	20, 785	200, 841	11	737, 100	12	1, 526, 111	10	789, 011	7
Furniture, including store and office fixtures.....	3, 778	193, 399	12	426, 454	24	948, 116	20	521, 662	15
Clothing, women's, not elsewhere classified.....	8, 082	187, 500	13	934, 414	7	1, 709, 581	8	775, 167	8
Printing and publishing, book and job.....	12, 712	160, 649	14	266, 749	37	1, 006, 657	16	739, 907	9
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	3, 691	149, 868	15	440, 505	21	901, 104	22	460, 599	16
Silk and rayon manufactures.....	1, 491	130, 467	16	412, 181	26	731, 200	29	319, 019	24
Printing and publishing, newspaper and periodical.....	11, 524	129, 660	17	391, 738	27	1, 738, 299	7	1, 346, 561	3
Meat packing, wholesale.....	1, 277	122, 505	18	2, 974, 128	1	3, 434, 654	2	460, 526	17
Cigars and cigarettes.....	1, 636	105, 308	19	356, 778	29	1, 066, 909	14	710, 131	10
Paper.....	685	103, 320	20	574, 608	16	967, 180	18	392, 578	20
<b>Industries reporting 50,000 to 100,000 wage earners, total</b> .....	<b>20, 494</b>	<b>1, 283, 865</b>	---	<b>6, 207, 879</b>	---	<b>10, 564, 077</b>	---	<b>4, 356, 198</b>	---
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	2, 997	98, 866	21	462, 062	19	750, 342	26	288, 280	26
Clay products (other than pottery) and nonclay refractories.....	1, 749	93, 336	22	81, 699	84	294, 935	50	213, 236	33
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	4, 849	90, 134	23	296, 008	35	553, 583	31	257, 575	27
Worsteds.....	264	88, 485	24	336, 640	31	536, 067	32	199, 418	35
Rubber tires and inner tubes.....	91	83, 263	25	429, 607	23	770, 177	25	340, 570	22
Petroleum refining.....	390	80, 596	26	2, 031, 341	3	2, 639, 665	5	608, 324	14
Dyeing and finishing textiles.....	732	79, 327	27	235, 712	40	465, 821	37	230, 108	31
Nonferrous-metal alloys and products, not including aluminum products.....	1, 225	79, 183	28	600, 411	15	909, 804	21	300, 393	25
Glass.....	263	67, 527	29	103, 294	66	503, 819	47	200, 525	34
Confectionery.....	2, 021	63, 501	30	215, 192	42	393, 270	42	178, 077	38
Chemicals, not elsewhere classified.....	551	62, 199	31	363, 577	28	738, 048	28	374, 472	21
Engines, turbines, tractors, and water wheels.....	199	61, 145	32	202, 900	44	457, 218	38	254, 317	28
Shirts.....	863	59, 830	33	116, 678	59	228, 322	65	111, 643	61
Woolen goods.....	460	58, 474	34	165, 882	49	290, 939	52	125, 057	57
Boxes, paper, not elsewhere classified.....	1, 249	55, 654	35	159, 840	51	294, 253	51	134, 414	54
Ship and boat building, steel and wooden, including repair work.....	624	55, 089	36	85, 849	80	231, 300	63	145, 451	49
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	1, 482	54, 947	37	244, 696	39	477, 037	36	232, 341	30
Hardware not elsewhere classified.....	485	52, 306	38	76, 450	89	229, 478	64	152, 997	47
<b>Industries reporting 25,000 to 50,000 wage earners, total</b> .....	<b>30, 728</b>	<b>1, 076, 069</b>	---	<b>3, 866, 486</b>	---	<b>7, 738, 763</b>	---	<b>3, 872, 277</b>	---
Leather: Tanned, curried, and finished.....	471	49, 932	39	337, 598	30	481, 340	35	143, 741	50
Machine tools.....	280	47, 391	40	64, 284	100	244, 578	59	180, 294	37
Stoves and ranges (other than electric) and warm-air furnaces.....	609	46, 610	41	100, 747	70	271, 747	55	171, 000	42
Gas, manufactured, illuminating and heating.....	754	43, 065	42	188, 416	46	512, 653	33	324, 236	23
Agricultural implements.....	293	41, 663	43	113, 969	61	277, 854	53	163, 885	44
Rubber goods other than tires, inner tubes, boots, and shoes.....	412	40, 226	44	114, 674	60	244, 746	58	130, 071	55
Turpentine and rosin.....	1, 183	40, 157	45	10, 294	232	36, 282	194	25, 988	161



TABLE 7.—SUMMARY FOR PRINCIPAL INDUSTRIES, RANKED BY NUMBER OF WAGE EARNERS: 1929—Continued

INDUSTRY	Number of establishments	WAGE EARNERS		COST OF MATERIALS, FUEL, PURCHASED ENERGY, ETC.		VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE	
		Average for the year	Rank	Amount	Rank	Amount	Rank	Amount	Rank
				Thousand dollars		Thousand dollars		Thousand dollars	
Cars, electric and steam railroad, not built in railroad repair shops	147	40,015	46	223,889	41	328,220	44	104,331	65
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering	582	40,000	47	87,639	78	204,306	71	116,667	59
Steam fittings and steam and hot-water heating apparatus	240	39,621	48	72,708	92	228,310	66	155,602	46
Rayon and allied products	29	39,106	49	33,335	146	149,546	91	116,211	60
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	511	38,201	50	83,552	82	138,450	95	54,898	110
Marble, granite, slate, and other stone products	1,881	37,817	51	57,638	106	192,164	74	134,526	53
Pottery, including porcelain ware	313	35,409	52	27,007	159	110,622	112	83,615	80
Cement	174	33,368	53	95,242	74	267,509	57	172,267	40
Carpets and rugs, wool, other than rag	67	32,623	54	86,651	79	176,915	80	90,264	73
Millinery	1,293	32,206	55	98,090	72	195,693	72	97,604	69
Ice, manufactured	4,110	32,184	56	39,808	119	210,952	69	171,144	41
Tin cans and other tinware, not elsewhere classified	232	31,497	57	194,987	45	296,901	49	101,915	66
Boxes, wooden, except cigar boxes	792	30,554	58	74,082	91	135,026	96	60,944	105
Car and general construction and repairs, electric-railroad repair shops	446	29,475	59	32,781	141	85,482	130	52,700	113
Paints and varnishes	1,063	29,211	60	334,132	32	568,976	30	234,844	29
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	2,161	28,593	61	112,648	62	222,485	67	109,837	63
Beverages	5,154	28,281	62	103,026	67	270,324	56	167,298	43
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	255	27,960	63	49,033	112	129,674	99	80,641	85
Jewelry	1,536	27,922	64	79,805	86	177,387	79	97,582	70
Flour and other grain-mill products	4,022	27,028	65	868,873	10	1,060,269	15	191,397	36
Textile machinery and parts	376	27,019	66	36,556	129	122,439	105	85,882	78
Machine-tool accessories and small metal-working tools, not elsewhere classified	722	26,682	67	26,993	160	144,411	94	117,418	58
Furnishing goods, men's, not elsewhere classified	598	26,588	68	83,632	81	150,964	90	67,332	98
Boots and shoes, rubber	22	25,659	69	34,396	136	102,538	121	68,141	96

TABLE 8.—SUMMARY FOR PRINCIPAL INDUSTRIAL AREAS, RANKED BY NUMBER OF WAGE EARNERS: 1929

AREA	Population	Number of establishments	Wage earners (average for the year)	Value of products	Value added by manufacture
United States	122,775,048	210,959	3,838,743	\$70,434,863,443	\$31,885,283,711
Industrial areas, total	44,116,063	109,721	4,963,875	43,849,750,726	20,211,316,307
New York City area (New York, Kings, Queens, Bronx, Richmond, and Westchester Counties, N. Y.; Bergen, Passaic, Hudson, Essex, Union, and Middlesex Counties, N. J.)	10,160,159	36,401	918,206	9,424,294,682	4,510,597,278
Chicago area (Cook, Lake, Kane, Du Page, and Will Counties, Ill.; Lake County, Ind.)	4,675,877	11,774	550,903	5,558,331,242	2,548,490,359
Philadelphia area (Philadelphia, Delaware, Chester, Montgomery and Bucks Counties, Pa.; Camden, Burlington, and Gloucester Counties, N. J.)	3,137,040	7,184	376,009	2,981,045,661	1,431,486,565
Detroit area (Wayne and Oakland Counties, Mich.)	2,100,197	2,806	293,252	2,844,610,198	1,229,693,738
Boston area (Suffolk, Essex, Middlesex, and Norfolk Counties, Mass.)	2,611,926	6,394	285,652	1,950,417,516	973,868,561
Pittsburgh area (Allegheny, Beaver, Westmoreland, and Washington Counties, Pa.)	2,023,269	2,587	227,221	2,015,399,034	856,660,668
Providence-Fall River-New Bedford area (Providence County, R. I.; Bristol County, Mass.)	904,606	2,289	184,895	398,409,509	436,834,624

TABLE 8.—SUMMARY FOR PRINCIPAL INDUSTRIAL AREAS, RANKED BY NUMBER OF WAGE EARNERS: 1929—Continued

AREA	Population	Number of establishments	Wage earners (average for the year)	Value of products	Value added by manufacture
Cleveland area (Cuyahoga and Lorain Counties, Ohio).....	1, 310, 661	2, 912	176, 840	\$1, 505, 490, 392	\$735, 276, 457
St. Louis area (St. Louis city and St. Louis County, Mo.; Madison and St. Clair Counties, Ill.).....	1, 335, 158	3, 287	154, 321	1, 541, 953, 654	623, 081, 251
Milwaukee area (Racine and Kenosha Counties, Wis.).....	878, 757	2, 218	144, 760	1, 166, 493, 769	550, 269, 070
Bridgeport-New Haven-Waterbury area (New Haven and Fairfield Counties, Conn.).....	850, 151	1, 808	135, 147	862, 311, 307	444, 400, 271
Buffalo area (Erie and Niagara Counties, N. Y.).....	911, 737	1, 923	115, 212	1, 157, 751, 878	493, 501, 594
Los Angeles area (Los Angeles County, Calif.).....	2, 208, 492	4, 908	114, 480	1, 319, 386, 486	609, 048, 374
Cincinnati area (Hamilton and Butler Counties, Ohio; Campbell and Kenton Counties, Ky.).....	870, 365	2, 373	114, 068	933, 290, 890	439, 058, 164
Baltimore area (Baltimore city and Baltimore County, Md.).....	929, 439	2, 211	99, 601	949, 853, 476	343, 016, 062
San Francisco-Oakland area (San Francisco, Alameda, Contra Costa, San Mateo, and Marin Counties, Calif.).....	1, 306, 938	3, 903	93, 797	1, 165, 683, 465	463, 059, 365
Worcester area (Worcester County, Mass.).....	491, 242	1, 144	83, 620	462, 225, 239	243, 516, 974
Youngstown area (Mahoning and Trumbull Counties, Ohio; Mercer and Lawrence Counties, Pa.).....	555, 709	612	78, 903	823, 532, 610	319, 504, 615
Akron area (Summit County, Ohio).....	344, 131	359	67, 298	599, 053, 295	281, 393, 402
Hartford area (Hartford County, Conn.).....	421, 097	674	65, 482	351, 491, 271	228, 722, 854
Minneapolis-St. Paul area (Hennepin, Ramsey, and Dakota Counties, Minn.).....	839, 098	1, 958	65, 148	709, 829, 325	274, 835, 635
Rochester area (Monroe County, N. Y.).....	423, 881	1, 052	63, 248	420, 610, 921	252, 736, 732
Albany-Schenectady-Troy area (Albany, Schenectady, and Rensselaer Counties, N. Y.).....	456, 755	699	63, 112	367, 471, 954	187, 721, 890
Allentown-Bethlehem area (Northampton and Lehigh Counties, Pa.).....	342, 197	705	58, 483	396, 185, 282	191, 019, 274
Springfield-Holyoke area (Hampden County, Mass.).....	335, 496	667	54, 208	341, 184, 468	179, 823, 957
Toledo area (Lucas County, Ohio).....	347, 709	625	53, 996	479, 336, 121	212, 837, 961
Indianapolis area (Marion County, Ind.).....	422, 666	917	51, 117	428, 362, 004	189, 918, 419
Kansas City area (Jackson and Clay Counties, Mo.; Wyandotte County, Kans.).....	638, 476	1, 169	48, 332	741, 237, 997	229, 899, 530
Seattle-Tacoma area (King and Pierce Counties, Wash.).....	627, 359	1, 757	47, 449	389, 775, 019	161, 956, 389
Reading area (Berks County, Pa.).....	231, 717	578	47, 350	229, 028, 386	124, 831, 040
Wheeling area (Hancock, Brooke, and Ohio Counties, W. Va.; Belmont, Columbiana, and Jefferson Counties, Ohio).....	394, 761	537	45, 906	319, 433, 328	140, 066, 839
Dayton area (Montgomery County, Ohio).....	273, 481	521	42, 591	330, 318, 581	211, 429, 298
Scranton-Wilkes-Barre area (Luzerne and Lackawanna Counties, Pa.).....	755, 506	769	42, 268	185, 951, 766	92, 759, 097

TABLE 9.—PERSONS ENGAGED IN MANUFACTURING, BY CLASS AND SEX: 1929, 1919, 1914, AND 1909

[The figures for 1919 and 1914 include data for the "Automobile repairing" industry, which was not canvassed in the 1929 census of manufactures; and those for 1919 and earlier years include data for establishments with products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000]

YEAR	ALL CLASSES		PROPRIETORS AND FIRM MEMBERS		SALARIED OFFICERS AND EMPLOYEES		WAGE EARNERS (AVERAGE FOR THE YEAR)	
	Male	Female	Male	Female	Male	Female	Male	Female
Number:								
1929 <sup>1</sup> .....	8, 093, 815	2, 236, 913	127, 810	5, 400	2, 987, 502	2, 371, 273	6, 978, 503	1, 860, 240
1919 <sup>1</sup> .....	8, 583, 720	2, 229, 016	258, 894	10, 243	1, 057, 796	389, 431	7, 267, 030	1, 829, 342
1914.....	6, 613, 376	1, 649, 687	252, 430	10, 169	770, 039	194, 178	5, 590, 907	1, 445, 340
1909.....	6, 162, 263	1, 516, 315	263, 673	9, 592	646, 297	143, 970	5, 252, 293	1, 362, 753
Per cent of total:								
1929.....	78.3	21.7	95.9	4.1	72.7	27.3	79.0	21.0
1919.....	79.4	20.6	96.2	3.8	73.1	26.9	79.9	20.1
1914.....	80.0	20.0	96.1	3.9	79.9	20.1	79.5	20.5
1909.....	80.3	19.7	96.5	3.5	81.8	18.2	79.4	20.6

<sup>1</sup> No data in regard to sex of persons were collected for any year between 1919 and 1929. A average computed in 1929 by the use of ratios between numbers of male and of female wage earners reported for Dec. 14.

<sup>2</sup> Not including employees of central administrative offices; male, 140,680; female, 67,883.

TABLE 10.—PERSONS ENGAGED IN MANUFACTURING, BY CLASS AND SEX, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929

INDUSTRY	ALL CLASSES		PROPRIETORS AND FIRM MEMBERS		SALARIED OFFICERS AND EMPLOYEES		WAGE EARNERS (AVERAGE FOR THE YEAR)	
	Male	Female	Male	Female	Male	Female	Male <sup>1</sup>	Female <sup>1</sup>
Agricultural implements.....	45,652	1,971	103	4	4,623	1,230	40,926	737
Aircraft and parts.....	17,761	874	12	3	3,407	503	14,342	368
Aluminum manufactures.....	20,614	3,174	58	3	1,817	700	18,739	2,471
Ammunition and related products.....	4,875	3,090	3	-----	526	213	4,346	2,877
Asbestos products, other than steam packing or pipe and boiler covering.....	7,772	1,465	8	1	783	353	6,981	1,111
Awnings, tents, sails, and canvas covers.....	6,552	3,437	753	60	1,374	640	4,425	2,737
Bags, other than paper, not made in textile mills.....	6,018	7,560	100	3	1,116	531	4,802	7,026
Bags, paper, exclusive of those made in paper mills.....	4,011	3,850	18	-----	612	261	3,381	3,589
Baskets and rattan and willow ware, not including furniture.....	7,637	2,518	168	4	492	138	6,977	2,376
Beverages.....	38,330	2,276	4,307	107	6,298	1,493	27,665	616
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	15,399	2,827	14	3	1,453	581	13,932	2,243
Bookbinding and blank-book making.....	17,315	12,180	649	27	2,470	1,595	14,196	10,558
Boot and shoe cut stock, not made in boot and shoe factories.....	7,471	3,168	153	7	703	277	6,615	2,884
Boot and shoe findings, not made in boot and shoe factories.....	7,920	4,117	215	11	826	609	6,879	3,497
Boots and shoes, other than rubber.....	132,730	92,971	447	19	11,280	8,315	121,003	84,637
Boots and shoes, rubber.....	15,978	13,300	-----	-----	1,917	1,702	14,061	11,698
Boxes, paper, not elsewhere classified.....	33,872	30,022	410	30	5,299	2,501	28,163	27,491
Boxes, wooden, except cigar boxes.....	30,986	2,595	380	58	2,114	475	28,492	2,062
Bread and other bakery products.....	200,121	43,949	20,019	1,569	14,562	7,079	165,540	35,301
Brushes, other than rubber.....	6,268	2,659	179	9	920	578	5,189	2,072
Butter.....	22,613	5,321	1,235	72	5,083	2,447	16,295	2,802
Buttons.....	6,692	3,363	127	-----	650	244	5,915	3,119
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	8,295	6,603	125	3	904	254	7,266	6,346
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	60,141	50,410	1,701	54	7,318	2,612	51,122	47,744
Car and general construction and repairs, electric-railroad repair shops.....	31,562	420	-----	-----	2,293	214	29,269	206
Car and general construction and repairs, steam-railroad repair shops.....	395,909	2,746	-----	-----	28,072	1,902	367,837	844
Carpets and rugs, wool, other than rag.....	23,054	11,997	10	-----	1,740	678	21,304	11,319
Carriages and sleds, children's.....	6,656	1,253	14	1	504	288	6,138	964
Cars, electric and steam railroad, not built in railroad repair shops.....	45,061	1,055	3	-----	5,359	739	39,699	316
Cash registers and adding, calculating, and card-tabulating machines.....	16,254	3,934	9	-----	2,301	1,038	13,944	2,896
Caskets, coffins, burial cases, and other morticians' goods.....	12,237	3,123	140	14	1,571	602	10,526	2,507
Cast-iron pipe.....	20,765	271	7	2	1,084	202	19,674	67
Cement.....	38,042	714	4	-----	4,897	487	33,141	227
Cereal preparations.....	6,182	2,022	45	1	1,203	467	4,934	1,554
Chemicals, not elsewhere classified.....	69,713	5,845	39	2	10,483	2,835	59,191	3,008
Chocolate and cocoa products, not including confectionery.....	5,278	1,794	4	-----	551	268	4,723	1,526
Cigars and cigarettes.....	43,754	72,203	1,479	39	7,764	1,367	34,511	70,797
Clay products (other than pottery) and nonclay refractories.....	98,093	3,962	518	12	6,990	1,199	90,585	2,751
Clocks, clock movements, time-recording devices, and time stamps.....	7,847	4,066	4	-----	1,065	473	6,778	3,623
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	80,919	88,224	3,898	54	9,353	5,970	67,668	82,200
Clothing, women's, not elsewhere classified.....	79,075	143,329	7,308	381	15,992	11,223	55,775	131,725
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	8,011	33,185	314	9	1,600	1,072	6,097	32,104
Coffee and spice, roasting and grinding.....	8,922	4,870	411	25	2,849	1,454	5,662	3,391
Coke, not including gas-house coke.....	23,263	245	5	-----	2,706	245	20,552	-----
Concrete products.....	21,153	544	1,694	40	2,969	489	16,490	15
Condensed and evaporated milk.....	7,814	722	38	-----	1,111	322	6,665	400
Confectionery.....	30,330	43,610	1,111	111	5,411	3,806	23,308	39,693
Cooperage.....	11,528	436	298	5	814	156	10,416	275
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	34,514	2,549	1,488	281	5,283	1,671	27,743	850

<sup>1</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14.

TABLE 10.—PERSONS ENGAGED IN MANUFACTURING, BY CLASS AND SEX, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

INDUSTRY	ALL CLASSES		PROPRIETORS AND FIRM MEMBERS		SALARIED OFFICERS AND EMPLOYEES		WAGE EARNERS (AVERAGE FOR THE YEAR)	
	Male	Female	Male	Female	Male	Female	Male <sup>1</sup>	Female <sup>1</sup>
Cordage and twine.....	10,414	5,501	17	-----	1,061	348	9,336	5,153
Corn sirup, corn sugar, corn oil, and starch.....	7,670	557	9	-----	1,263	225	6,398	332
Corsets and allied garments.....	3,028	12,930	83	16	857	1,338	2,088	11,576
Cotton goods.....	266,090	173,011	84	7	11,377	2,717	254,629	170,287
Cotton small wares.....	7,237	9,443	62	7	878	452	6,297	8,984
Cutlery (not including silver and plated cutlery) and edge tools.....	12,685	4,320	109	2	1,321	582	11,255	3,736
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.....	6,397	813	92	4	1,080	584	5,225	225
Doors, shutters, and window sash and frames, metal.....	11,458	491	30	3	1,877	482	9,551	6
Druggists' preparations.....	7,953	6,795	125	10	2,218	1,712	5,615	5,073
Dyeing and finishing textiles.....	69,034	20,613	207	10	7,453	2,650	61,374	17,953
Electrical machinery, apparatus, and supplies.....	287,952	117,101	452	12	52,461	23,406	235,039	93,683
Electroplating.....	6,767	546	451	19	650	265	5,666	262
Embroideries.....	2,853	5,308	735	84	497	223	1,621	5,001
Engines, turbines, tractors, and water wheels.....	69,242	2,965	27	-----	8,539	2,493	60,676	472
Engraving, steel and copperplate, and plate printing.....	7,141	5,357	306	11	1,228	823	5,607	4,523
Envelopes.....	5,636	6,796	38	-----	1,271	756	4,327	6,040
Explosives.....	5,998	435	16	12	688	103	5,294	320
Fancy and miscellaneous articles, not elsewhere classified.....	10,498	11,471	431	41	1,589	1,186	8,478	10,244
Feeds, prepared, for animals and fowls.....	13,235	1,501	341	11	2,975	1,186	9,919	304
Felt goods, wool, hair, or jute.....	4,725	1,460	8	-----	454	183	4,263	1,277
Fertilizers.....	24,524	592	134	5	3,533	518	20,857	69
Firearms.....	6,900	847	1	-----	593	315	6,306	532
Flavoring extracts and flavoring sirups.....	6,154	1,693	288	14	1,734	770	4,132	909
Flour and other grain-mill products.....	36,857	2,269	3,296	38	6,996	1,768	26,505	463
Food preparations, not elsewhere classified.....	9,531	4,845	535	36	2,154	1,035	6,842	3,774
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	22,666	889	43	-----	2,123	507	20,500	382
Foundry and machine-shop products, not elsewhere classified.....	512,909	32,468	3,577	110	67,489	19,760	441,843	12,598
Fur goods.....	17,701	5,313	3,092	69	2,766	1,335	11,843	3,909
Furnishing goods, men's, not elsewhere classified.....	6,241	23,341	451	17	1,383	1,143	4,407	22,181
Furniture, including store and office fixtures.....	201,443	18,356	1,839	44	17,995	6,522	181,609	11,790
Furs, dressed.....	5,234	887	164	10	665	115	4,405	762
Gas and electric fixtures; lamps, lanterns, and reflectors.....	22,578	6,031	264	6	3,310	1,449	19,004	4,576
Gas machines, gas meters, and water and other liquid meters.....	6,584	891	7	-----	984	383	5,593	508
Gas, manufactured, illuminating and heating.....	59,423	6,201	-----	-----	16,478	6,081	42,945	120
Glass.....	63,641	9,786	28	3	4,403	1,466	59,210	8,317
Glass products (except mirrors) made from purchased glass.....	5,601	1,734	299	2	727	278	4,575	1,454
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.....	1,771	8,153	58	5	264	318	1,449	7,830
Gloves and mittens, leather.....	5,428	4,904	222	9	606	292	4,600	4,603
Grease and tallow, not including lubricating greases.....	6,394	217	169	8	795	164	5,430	45
Handkerchiefs.....	1,037	5,488	56	4	229	222	782	5,262
Hardware not elsewhere classified.....	46,971	13,279	119	5	5,359	2,461	41,493	10,813
Hats and caps, except felt and straw, men's.....	4,442	2,837	557	7	628	261	3,257	2,569
Hats, fur-felt.....	13,325	4,947	70	2	1,191	470	12,064	4,475
House-furnishing goods, not elsewhere classified.....	7,399	11,764	585	54	1,655	1,075	5,159	10,635
Ice cream.....	28,170	3,455	2,068	126	5,069	1,963	21,033	1,366
Ice, manufactured.....	39,829	1,181	1,131	30	6,326	1,039	32,072	112
Instruments, professional and scientific.....	15,544	5,641	121	3	2,675	1,510	12,748	4,128
Iron and steel: Blast furnaces.....	27,230	146	-----	-----	2,278	138	24,592	8
Iron and steel: Steel works and rolling mills.....	423,489	8,039	17	-----	32,079	4,858	391,393	3,181

<sup>1</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14.

TABLE 10.—PERSONS ENGAGED IN MANUFACTURING, BY CLASS AND SEX, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

INDUSTRY	ALL CLASSES		PROPRIETORS AND FIRM MEMBERS		SALARIED OFFICERS AND EMPLOYEES		WAGE EARNERS (AVERAGE FOR THE YEAR)	
	Male	Female	Male	Female	Male	Female	Male <sup>1</sup>	Female <sup>1</sup>
Jewelry.....	24,597	10,200	1,320	20	3,186	2,349	20,091	7,831
Knit goods.....	84,052	139,288	791	32	8,680	5,349	74,581	133,907
Lace goods.....	3,711	3,983	3	1	563	273	3,145	3,709
Leather goods, not elsewhere classified..	4,413	2,797	277	6	574	318	3,562	2,473
Leather: Tanned, curried, and finished..	49,049	5,267	90	3	3,524	787	45,435	4,497
Lime.....	9,262	178	53	1	701	131	8,508	46
Linoleum.....	6,239	655	---	---	823	527	5,416	128
Lithographing.....	18,954	4,765	91	1	3,308	1,340	15,555	3,424
Locomotives, not made in railroad repair shops.....	12,648	203	5	---	1,598	203	11,045	---
Lumber and timber products, not elsewhere classified.....	447,902	6,241	13,280	65	19,365	2,349	415,257	3,827
Macaroni, spaghetti, vermicelli, and noodles.....	4,507	1,834	362	15	641	251	3,504	1,568
Machine-tool accessories and small metal-working tools, not elsewhere classified..	29,123	1,850	399	7	2,873	1,012	25,851	831
Machine tools.....	53,310	2,988	40	2	6,787	2,078	46,483	908
Marble, granite, slate, and other stone products.....	44,173	1,085	1,486	39	4,930	986	37,757	60
Mattresses and bed springs, not elsewhere classified.....	16,774	3,770	666	22	1,898	771	14,210	2,977
Meat packing, wholesale.....	129,848	16,869	846	17	19,263	4,086	109,739	12,766
Millinery.....	12,803	25,352	723	59	3,065	2,102	9,015	23,191
Models and patterns, not including paper patterns.....	8,085	399	681	3	794	228	6,610	168
Motion pictures, not including projection in theaters.....	16,241	3,398	35	2	6,731	2,087	9,475	1,305
Motor-vehicle bodies and motor-vehicle parts.....	220,911	20,902	529	11	15,124	4,817	205,258	16,074
Motor vehicles, not including motorcycles.....	239,929	13,299	34	2	20,028	7,048	219,867	6,249
Musical instruments: Pianos.....	10,413	688	9	---	774	348	9,630	340
Needles, pins, hooks and eyes, and snap fasteners.....	3,437	3,586	9	---	435	337	2,993	3,249
Nonferrous-metal alloys and products, not including aluminum products.....	83,397	8,608	583	21	9,207	3,011	73,607	5,576
Oil, cake, and meal, cottonseed.....	18,824	215	33	1	3,009	171	15,782	43
Optical goods.....	7,658	3,585	53	2	956	531	6,649	3,052
Paints and varnishes.....	36,724	5,609	225	9	9,158	3,730	27,341	1,870
Paper.....	101,842	13,254	23	9	9,225	2,519	92,594	10,726
Paper goods, not elsewhere classified.....	15,632	8,986	94	9	2,563	1,725	12,975	7,252
Patent or proprietary medicines and compounds.....	14,984	11,136	410	52	5,079	4,145	9,495	6,939
Peanuts, walnuts, and other nuts, processed or shelled.....	3,552	4,994	46	3	445	119	3,061	4,872
Pencils, lead (including mechanical).....	3,936	2,936	6	---	689	474	3,241	2,462
Perfumes, cosmetics, and other toilet preparations.....	8,402	11,093	232	34	2,888	3,232	5,232	7,827
Petroleum refining.....	92,464	1,941	11	1	12,184	1,613	80,269	327
Phonographs.....	11,154	5,544	4	---	1,109	1,169	10,041	4,375
Photo-engraving, not done in printing establishments.....	15,672	1,179	225	7	3,323	943	12,124	229
Photographic apparatus and materials.....	12,324	4,036	57	1	2,303	1,032	9,964	3,003
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	105,905	3,959	2,724	39	14,065	2,902	89,116	1,018
Plated ware.....	9,642	3,041	29	1	1,154	771	8,459	2,269
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	29,049	2,304	48	2	2,506	837	26,495	1,465
Pocketbooks, purses, and cardcases.....	9,821	2,231	176	5	909	532	8,736	1,694
Pottery, including porcelain ware.....	28,312	9,776	90	5	2,185	899	26,537	8,872
Poultry killing, dressing, and packing, wholesale.....	6,004	3,357	201	6	1,057	328	4,746	3,023
Printing and publishing, book and job.....	158,182	46,719	7,594	265	28,507	17,586	121,781	28,868
Printing and publishing, newspaper and periodical.....	217,631	60,041	4,921	353	95,169	47,569	117,541	12,119
Pulp (wood and other fiber).....	26,372	253	8	3	1,694	191	24,670	59
Pumps (hand and power) and pumping equipment.....	27,788	2,340	99	2	5,072	1,849	22,617	489
Rayon and allied products.....	25,204	16,180	---	---	1,633	645	23,071	15,535
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	10,880	655	74	4	1,224	449	9,582	202
Refrigerators, mechanical.....	17,198	2,182	4	---	1,821	672	15,373	1,510
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	6,947	479	15	---	1,018	366	5,914	113

<sup>1</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14.

TABLE 10.—PERSONS ENGAGED IN MANUFACTURING, BY CLASS AND SEX, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

INDUSTRY	ALL CLASSES		PROPRIETORS AND FIRM MEMBERS		SALARIED OFFICERS AND EMPLOYEES		WAGE EARNERS (AVERAGE FOR THE YEAR)	
	Male	Female	Male	Female	Male	Female	Male <sup>1</sup>	Female <sup>1</sup>
Rubber goods other than tires, inner tubes, and boots and shoes.....	34,438	12,127	105		4,275	1,959	30,058	10,168
Rubber tires and inner tubes.....	78,812	17,437	5		9,053	3,928	69,754	13,509
Salt.....	5,500	716	2		572	184	4,926	532
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	6,726	1,068	656	22	928	291	5,142	755
Screw-machine products and wood screws.....	18,961	3,493	105	1	1,711	756	17,145	2,736
Sewing machines and attachments.....	10,488	1,701	19		1,234	469	9,235	1,232
Ship and boat building, steel and wooden, including repair work.....	60,444	925	338	7	5,064	871	55,042	47
Shirts.....	11,527	52,327	508	22	1,929	1,565	9,000	50,740
Signs and advertising novelties.....	19,128	6,588	582	15	3,415	1,704	15,131	4,869
Silk and rayon manufactures.....	62,095	76,946	704	17	5,570	2,281	55,819	74,648
Silversmithing and silverware.....	5,142	949	44	3	660	377	4,438	560
Smelting and refining, copper.....	16,320	217			1,788	205	14,532	12
Smelting and refining, zinc.....	12,588	113			972	111	11,616	2
Soap.....	14,593	4,544	82	4	3,046	1,642	11,465	2,898
Sporting and athletic goods, not including firearms or ammunition.....	8,487	4,252	102	9	1,090	745	7,295	3,498
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	6,248	427	11	1	642	179	5,595	247
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	34,280	11,772	159	5	4,053	1,835	30,068	9,932
Stationery goods, not elsewhere classified.....	7,154	6,274	59	4	1,222	1,065	5,873	5,205
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	7,268	1,445	55		957	435	6,256	1,010
Steam fittings and steam and hot-water heating apparatus.....	42,921	3,024	25		4,949	1,350	37,947	1,674
Stereotyping and electrotyping, not done in printing establishments.....	7,258	683	64	4	1,040	346	6,154	333
Stoves and ranges (other than electric) and warm-air furnaces.....	50,922	3,891	159	7	5,702	2,329	45,061	1,555
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	66,835	2,502	726	6	11,379	2,279	54,730	217
Sugar, beet.....	8,432	461			1,117	330	7,365	131
Sugar refining, cane.....	14,332	1,327	4		1,395	348	12,933	979
Surgical and orthopedic appliances, including artificial limbs.....	5,543	4,829	203	11	1,124	1,124	4,216	3,694
Textile machinery and parts.....	29,502	1,992	207	24	3,385	859	25,910	1,109
Tin cans and other tinware, not elsewhere classified.....	25,104	10,208	57	1	2,914	843	22,133	9,364
Tobacco: Chewing and smoking, and snuff.....	6,090	5,891	111	6	810	243	5,169	5,642
Tools, not including edge tools, machine tools, files, or saws.....	20,443	2,659	271	8	2,369	1,149	17,803	1,502
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	12,104	7,329	257	26	1,522	968	10,325	6,335
Trimnings (not made in textile mills) and stamped art goods for embroidering.....	4,440	5,386	439	27	810	616	3,191	4,743
Trunks, suitcases, and bags.....	10,533	2,850	311	3	1,190	520	9,032	2,327
Turpentine and rosin.....	42,046	273	1,472	12	1,570	13	39,904	253
Typewriters and parts.....	13,123	5,287	1		959	505	12,163	4,782
Wall plaster, wall board, insulating board, and floor composition.....	8,659	335	42	1	1,218	271	7,399	63
Washing machines, wringers, driers, and ironing machines, for household use.....	8,978	933	9		1,068	645	7,901	288
Watches and watch movements.....	6,063	5,572			488	409	5,575	5,163
Wire, drawn from purchased bars or rods.....	22,164	2,860	3		2,011	543	20,150	2,317
Wirework, not elsewhere classified.....	10,845	6,058	281	13	2,292	929	17,272	5,116
Wood preserving.....	14,296	201	7		1,227	186	13,062	15
Wood turned and shaped and other wooden goods, not elsewhere classified.....	18,813	2,686	567	20	1,678	522	16,568	2,144
Woolen goods.....	42,834	19,811	109	6	3,338	718	39,387	19,087
Worsted goods.....	50,117	43,646	52	1	4,056	1,169	46,009	42,476
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	12,576	263	3		1,195	224	11,378	39

<sup>1</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14.

TABLE 11.—PERSONS ENGAGED IN MANUFACTURING, BY CLASS AND SEX, BY DIVISIONS AND STATES: 1929

DIVISION AND STATE	ALL CLASSES		PROPRIETORS AND FIRM MEMBERS		SALARIED OFFICERS AND EMPLOYEES		WAGE EARNERS (AVERAGE FOR THE YEAR)	
	Male	Female	Male	Female	Male	Female	Male <sup>1</sup>	Female <sup>1</sup>
United States.....	8,093,815	2,238,913	127,810	5,400	987,502	371,273	6,978,563	1,860,240
GEOGRAPHIC DIVISIONS:								
New England.....	885,113	371,391	10,116	520	99,239	48,115	775,758	322,756
Middle Atlantic.....	2,274,293	773,023	42,714	1,759	313,309	127,194	1,918,270	644,070
East North Central.....	2,440,545	524,671	23,753	1,107	291,331	115,849	2,134,461	407,715
West North Central.....	459,342	117,872	9,500	554	66,802	26,183	382,980	91,135
South Atlantic.....	776,605	237,900	14,223	287	70,626	17,122	691,756	220,491
East South Central.....	349,736	74,144	6,835	140	31,720	7,315	311,181	66,689
West South Central.....	308,141	39,294	6,107	249	36,250	7,086	265,784	31,959
Mountain.....	111,106	10,079	2,287	120	13,228	3,058	95,991	6,901
Pacific.....	479,934	88,539	12,275	664	64,937	19,351	402,722	68,524
NEW ENGLAND:								
Maine.....	57,869	19,821	865	26	4,842	1,798	52,162	17,997
New Hampshire.....	49,324	22,617	686	22	3,933	1,789	44,705	20,806
Vermont.....	26,371	4,818	631	18	2,313	806	23,427	3,994
Massachusetts.....	445,390	199,641	5,538	329	53,294	28,370	386,558	170,930
Rhode Island.....	91,032	50,042	906	52	9,777	4,271	80,349	45,719
Connecticut.....	215,127	74,452	1,490	73	25,808	11,075	188,557	63,304
MIDDLE ATLANTIC:								
New York.....	988,649	371,082	27,258	1,116	154,353	71,038	807,038	298,928
New Jersey.....	384,919	136,343	4,481	205	53,980	20,268	326,458	115,870
Pennsylvania.....	900,725	265,398	10,975	438	104,976	35,888	784,774	229,272
EAST NORTH CENTRAL:								
Ohio.....	713,721	145,568	5,653	251	80,233	32,009	627,835	113,308
Indiana.....	298,668	63,785	2,463	102	33,319	11,871	262,886	51,812
Illinois.....	657,092	179,255	8,430	410	94,766	41,186	553,836	137,659
Michigan.....	518,752	84,236	3,622	187	50,153	18,991	464,977	65,058
Wisconsin.....	261,312	51,827	3,585	157	32,860	11,792	224,867	39,873
WEST NORTH CENTRAL:								
Minnesota.....	103,592	22,817	2,076	102	14,866	5,951	86,650	16,764
Iowa.....	82,484	16,827	1,812	85	10,876	4,860	69,796	11,882
Missouri.....	179,183	64,595	2,984	192	27,048	10,675	149,151	53,728
North Dakota.....	4,545	666	184	10	715	278	3,646	373
South Dakota.....	6,955	1,219	378	23	946	322	5,661	874
Nebraska.....	30,263	5,419	875	55	4,740	1,800	24,648	3,564
Kansas.....	52,290	6,329	1,191	87	7,761	2,297	43,428	3,945
SOUTH ATLANTIC:								
Delaware.....	21,480	5,348	262	10	2,389	615	18,829	4,723
Maryland.....	112,548	40,728	2,309	61	14,505	5,302	95,734	35,365
District of Columbia.....	11,252	3,076	287	39	2,687	1,563	8,278	1,474
Virginia.....	103,961	29,947	2,299	23	9,197	2,116	92,465	27,808
West Virginia.....	81,208	13,151	768	26	6,794	1,445	73,646	11,680
North Carolina.....	161,961	66,968	2,506	23	14,445	2,154	145,010	64,816
South Carolina.....	85,644	29,345	1,092	21	4,432	667	80,120	28,657
Georgia.....	135,335	39,746	3,303	44	10,664	2,296	121,368	37,406
Florida.....	63,216	9,561	1,397	35	5,513	964	56,306	8,562
EAST SOUTH CENTRAL:								
Kentucky.....	74,388	15,620	1,341	34	8,234	2,524	64,763	13,062
Tennessee.....	107,714	36,201	1,862	33	10,838	2,782	95,014	33,886
Alabama.....	114,047	18,153	2,131	35	9,000	1,475	102,916	16,943
Mississippi.....	53,637	4,170	1,501	38	3,648	534	48,488	3,598
WEST SOUTH CENTRAL:								
Arkansas.....	46,115	4,003	1,340	31	3,872	670	40,903	3,302
Louisiana.....	87,166	11,309	888	36	8,674	1,532	77,604	9,741
Oklahoma.....	36,125	3,507	935	59	5,664	1,279	29,526	2,169
Texas.....	138,735	20,475	2,944	123	18,400	3,605	117,751	16,747
MOUNTAIN:								
Montana.....	16,739	726	319	11	1,906	360	14,514	355
Idaho.....	16,639	719	323	12	1,128	247	15,188	460
Wyoming.....	7,063	188	120	7	782	114	6,191	67
Colorado.....	35,296	4,684	823	44	4,787	1,436	29,686	3,204
New Mexico.....	5,059	175	155	9	502	92	4,402	74
Arizona.....	11,975	425	176	15	1,372	225	10,365	185
Utah.....	15,746	3,087	308	15	2,372	537	13,066	2,535
Nevada.....	2,559	75	63	7	317	47	2,179	21
PACIFIC:								
Washington.....	118,313	12,565	2,030	108	11,000	2,910	105,283	9,547
Oregon.....	65,871	9,696	1,612	90	6,519	1,841	57,740	7,765
California.....	295,750	66,278	8,633	466	47,418	14,600	239,699	51,212

<sup>1</sup> Computed by the use of ratios between numbers of male and of female wage earners reported for Dec. 14.

TABLE 12.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES.

[The month of maximum employment for each industry is indicated by

	INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY			
			January	February	March	April
	ALL INDUSTRIES:					
1	1929.....	8,838,743	8,492,857	8,677,823	8,835,116	8,902,946
2	1925.....	8,384,261	8,124,887	8,230,830	8,342,641	8,323,608
3	1919 <sup>1</sup> .....	9,000,059	8,784,866	8,589,745	8,585,615	8,572,763
4	1914 <sup>1</sup> .....	6,896,190	6,936,874	7,002,498	7,103,092	7,077,018
5	1909 <sup>1</sup> .....	6,472,616	6,067,633	6,155,197	6,281,087	6,295,203
	<i>All industries: 1929</i>					
6	Agricultural implements.....	41,663	42,641	44,308	45,078	45,055
7	Aircraft and parts.....	14,710	11,128	12,400	13,592	15,012
8	Alcohol, ethyl, and distilled liquors.....	1,484	1,813	1,339	1,414	1,326
9	Aluminum manufactures.....	21,210	19,085	19,900	21,013	21,884
10	Ammunition and related products.....	7,223	7,016	7,205	7,330	7,618
11	Artificial and preserved flowers and plants.....	3,216	3,346	3,630	3,652	3,370
12	Artificial leather.....	2,590	2,828	2,860	2,951	2,839
13	Artists' materials.....	1,167	1,109	1,143	1,159	1,163
14	Asbestos products, other than steam packing and pipe and boiler covering.....	8,092	7,567	7,809	8,019	8,284
15	Asphalted-felt-base floor covering.....	2,345	2,545	2,525	2,269	2,141
16	Awnings, tents, sails, and canvas covers.....	7,162	5,585	5,889	6,601	8,346
17	Bags, other than paper, not made in textile mills.....	11,828	11,100	11,228	11,705	11,783
18	Bags, paper, exclusive of those made in paper mills.....	6,970	6,550	6,840	7,136	7,295
19	Baking powders, yeast, and other leavening compounds.....	3,006	3,016	3,072	3,108	3,076
20	Baskets and rattan and willow ware, not including furniture.....	9,353	7,699	8,672	9,354	9,845
21	Belting other than leather and rubber, not made in textile mills.....	255	259	265	261	250
22	Belting, leather.....	2,602	2,616	2,624	2,635	2,626
23	Beverages.....	28,281	23,339	23,907	24,957	27,525
24	Billiard and pool tables, bowling alleys, and accessories.....	1,390	1,205	1,270	1,225	1,312
25	Blackening, stains, and dressings.....	1,617	1,610	1,654	1,679	1,641
26	Bluing.....	105	100	101	108	106
27	Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	16,175	15,601	16,195	16,464	16,714
28	Bone black, carbon black, and lampblack.....	1,915	1,844	1,804	1,879	1,861
29	Bookbinding and blank-book making.....	24,754	24,286	24,556	24,330	24,700
30	Boot and shoe cut stock, not made in boot and shoe factories.....	9,499	8,820	9,262	9,258	8,943
31	Boot and shoe findings, not made in boot and shoe factories.....	10,376	9,813	10,359	10,272	10,095
32	Boots and shoes, other than rubber.....	205,640	195,120	205,944	207,829	201,795
33	Boots and shoes, rubber.....	25,659	25,270	24,947	25,031	24,632
34	Boxes, cigar, wooden.....	4,374	4,159	4,161	4,189	4,198
35	Boxes, paper, not elsewhere classified.....	55,654	53,289	54,088	54,651	54,552
36	Boxes, wooden, except cigar boxes.....	30,554	30,171	30,445	31,330	31,551
37	Bread and other bakery products.....	200,841	195,178	197,518	198,756	198,599
38	Brooms.....	4,542	4,576	4,627	4,656	4,606
39	Brushes, other than rubber.....	7,261	6,965	7,235	7,270	7,296
40	Butter.....	19,097	17,485	17,466	17,927	18,901
41	Buttons.....	9,034	9,338	9,481	9,261	9,069
42	Candles.....	781	828	823	813	798
43	Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	13,612	11,040	11,378	10,511	9,165
44	Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	98,866	40,000	39,703	47,987	65,142
45	Car and general construction and repairs, electric-railroad repair shops.....	29,475	29,860	29,498	29,522	29,272
46	Car and general construction and repairs, steam-railroad repair shops.....	368,681	370,691	373,390	373,051	370,205
47	Carbon paper and inked ribbons.....	1,251	1,229	1,254	1,260	1,250
48	Cardboard, not made in paper mills.....	609	593	604	605	599
49	Card cutting and designing.....	2,338	2,195	2,323	2,385	2,377
50	Carpets and rugs, rag.....	1,529	1,475	1,494	1,520	1,550
51	Carpets and rugs, wool, other than rag.....	32,623	32,994	33,238	33,494	33,412
52	Carriage, wagon, sleigh, and sled materials.....	681	723	745	714	699
53	Carriages and sleds, children's.....	7,102	5,850	6,618	6,965	7,288
54	Carriages, wagons, sleighs, and sleds.....	2,873	2,744	2,268	2,834	2,866

<sup>1</sup> The figures for 1919, 1914, and 1909 have been adjusted for comparison with those for subsequent years as follows: (1) For all 3 years, deduction of data for establishments reporting products valued at less than industry.



MANUFACTURES

1929, 1925, 1919, 1914, 1909, AND BY INDUSTRIES, 1929

bold-faced figures and that of minimum employment by *italic* figures]

NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY—CON.								Per cent minimum is of maximum
May	June	July	August	September	October	November	December	
8,897,938	8,912,024	8,955,940	9,093,922	9,138,768	9,085,854	8,650,712	<i>8,341,086</i>	90.8
8,259,878	8,220,843	8,255,101	8,404,848	8,611,878	8,873,870	8,621,886	8,531,873	93.7
8,622,710	8,767,554	9,020,427	9,247,834	9,406,847	9,379,238	9,457,990	9,565,119	89.6
7,008,057	6,959,527	6,878,061	6,879,534	6,945,736	6,865,971	6,587,015	<i>6,506,397</i>	91.5
6,314,849	6,375,039	6,344,246	6,514,503	6,756,335	6,854,660	6,864,423	6,848,222	83.6
44,721	43,518	41,132	38,637	<i>37,240</i>	37,695	39,482	40,448	82.6
16,101	17,484	18,381	18,124	15,870	14,258	12,480	11,687	60.5
1,447	1,522	1,432	1,602	1,677	1,739	1,577	1,419	75.5
22,336	22,027	21,842	21,272	21,031	22,200	21,628	20,275	85.4
7,608	7,659	7,566	7,479	7,257	6,897	6,617	<i>6,436</i>	83.9
3,107	2,805	<i>2,650</i>	2,834	3,151	3,387	3,464	3,200	72.6
2,782	2,064	2,588	2,462	2,450	2,350	2,183	<i>2,118</i>	91.5
1,180	1,163	1,182	1,181	1,206	1,188	1,184	1,151	92.0
8,461	8,481	8,550	8,742	8,543	8,060	7,556	7,038	80.5
2,089	2,151	2,216	2,318	2,381	2,465	2,510	2,526	82.1
9,271	9,558	8,833	7,375	6,577	6,338	5,865	5,710	58.4
11,513	11,540	11,954	12,244	12,479	12,875	12,204	11,604	88.2
7,098	7,072	6,998	6,979	6,930	7,125	6,931	6,687	89.8
3,079	3,035	2,969	2,944	2,935	<i>2,905</i>	2,973	2,956	93.4
10,181	10,183	9,875	9,932	10,123	9,799	8,731	7,845	75.6
242	<i>231</i>	255	266	263	264	258	248	86.8
2,622	2,604	2,611	2,639	2,623	2,584	2,537	<i>2,497</i>	94.6
29,448	32,668	34,371	33,746	31,174	28,053	25,364	24,323	69.4
1,424	1,482	1,512	1,580	1,615	1,512	1,377	<i>1,171</i>	72.5
1,631	1,639	1,641	1,585	1,581	1,604	1,586	<i>1,558</i>	92.8
103	104	103	106	113	111	106	103	88.5
16,902	16,909	16,990	16,666	16,288	15,938	15,100	<i>14,332</i>	84.4
1,935	1,920	1,946	1,938	2,016	1,998	1,927	1,913	89.5
24,367	<i>24,146</i>	24,635	25,180	25,167	25,217	24,974	24,956	95.8
8,840	9,040	9,792	10,376	10,688	10,632	10,106	8,234	77.0
9,915	9,914	10,371	11,185	11,448	11,194	10,098	9,847	85.7
197,265	195,023	205,169	217,921	<b>223,616</b>	220,552	203,954	<i>193,491</i>	86.5
23,337	24,071	25,177	26,123	26,713	27,104	27,013	27,342	87.4
4,217	4,222	4,370	4,516	4,633	4,708	4,661	4,456	88.4
53,967	53,972	54,047	55,436	57,318	59,770	59,813	56,941	89.1
31,726	31,209	30,751	30,143	30,320	30,911	29,611	<i>28,478</i>	89.8
200,732	202,348	202,333	202,246	204,138	204,497	202,753	200,994	95.4
4,543	4,453	4,416	4,448	<i>4,401</i>	4,502	4,611	4,572	94.6
7,239	7,150	7,185	7,360	7,505	7,635	7,293	7,001	91.2
19,840	20,760	20,811	20,419	19,744	19,140	18,550	18,184	83.7
8,992	8,691	8,390	8,597	8,833	9,166	9,261	9,386	87.9
771	724	<i>698</i>	708	750	807	831	825	84.0
10,556	10,746	12,317	19,360	20,516	19,460	15,607	12,694	44.6
51,763	86,981	142,792	195,510	228,907	144,656	87,968	54,979	17.3
29,072	29,029	29,654	29,829	29,818	29,833	29,356	<i>28,954</i>	97.0
368,848	368,102	366,874	367,010	367,856	369,733	367,533	<i>360,884</i>	96.7
1,254	1,256	1,242	1,239	1,242	1,260	1,284	1,264	97.2
533	597	605	614	627	623	629	622	93.5
2,322	2,297	2,300	2,321	2,376	2,392	2,392	2,369	91.6
1,565	1,605	1,553	1,500	1,512	1,537	1,512	1,529	91.8
33,179	32,730	31,969	31,572	32,109	33,548	33,836	<i>29,397</i>	86.9
688	678	665	<i>641</i>	653	658	647	665	86.0
7,329	6,885	6,927	7,350	7,949	8,340	7,733	5,985	70.1
2,882	2,875	2,976	3,019	3,009	2,940	2,819	<i>2,690</i>	89.1

and therefore differ slightly from the corresponding figures as originally published. The adjustments are \$5,000; (2) for 1919 and 1914, deduction of data for establishments classified in the "Automobile repairing"

TABLE 12.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES,

[See note at head

	INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY			
			January	February	March	April
1	Cars, electric and steam railroad, not built in railroad repair shops.	40,015	30,873	34,083	37,675	40,749
2	Cash registers and adding, calculating, and card-tabulating machines.	16,840	15,555	16,633	17,219	17,321
3	Caskets, coffins, burial cases, and other morticians' goods.	13,033	13,655	13,918	13,540	13,164
4	Cast-iron pipe.	19,741	19,317	20,147	19,854	19,995
5	Cement.	33,368	31,257	30,915	32,464	33,776
6	Cereal preparations.	6,488	6,383	6,640	6,541	6,249
7	Cheese.	3,401	2,891	2,913	3,059	3,393
8	Chemicals, not elsewhere classified.	62,139	60,909	61,584	62,416	62,490
9	Chewing gum.	2,265	2,042	2,052	2,100	2,154
10	China firing and decorating, not done in potteries.	317	334	327	330	314
11	Chocolate and cocoa products, not including confectionery.	6,249	6,231	6,235	6,357	6,190
12	Cigars and cigarettes.	105,308	100,940	103,003	102,879	102,629
13	Clay products (other than pottery) and non-clay refractories.	93,336	80,920	79,771	86,178	95,040
14	Cleaning and polishing preparations.	2,713	2,638	2,734	2,774	2,833
15	Clocks, clock movements, time-recording devices, and time stamps.	10,401	10,199	9,968	10,146	10,226
16	Clothing (except work clothing, men's, youths', and boys', not elsewhere classified)	149,868	146,408	150,783	154,135	147,786
17	Clothing, men's, buttonholes.	292	295	294	286	295
18	Clothing, women's, not elsewhere classified.	187,500	181,163	192,080	199,301	195,970
19	Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts, men's.	38,201	34,650	37,471	37,569	38,354
20	Cloth sponging and refinishing.	902	895	913	904	900
21	Coffee and spice, roasting and grinding.	9,053	8,995	9,073	9,070	8,885
22	Coke, not including gas-house coke.	20,552	19,879	20,584	20,607	20,485
23	Collapsible tubes.	1,621	1,773	1,841	1,969	1,965
24	Collars, men's.	2,952	3,097	3,148	3,181	3,191
25	Combs and hairpins, not made from metal or rubber.	656	640	699	695	651
26	Compressed and liquefied gases.	3,390	3,093	3,172	3,222	3,329
27	Concrete products.	16,505	15,399	13,502	14,780	16,939
28	Condensed and evaporated milk.	7,065	6,501	6,436	6,800	7,300
29	Confectionery.	58,501	58,234	60,395	60,248	58,005
30	Cooperage.	10,691	10,446	10,552	10,717	10,627
31	Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	28,593	26,423	26,377	26,941	27,768
32	Cordage and twine.	14,489	14,773	14,767	15,056	14,937
33	Cork products.	3,842	3,687	3,713	3,830	3,931
34	Corn sirup, corn sugar, corn oil, and starch.	6,730	7,022	7,218	6,880	6,739
35	Corsets and allied garments.	13,664	13,653	13,474	13,927	14,089
36	Cotton goods.	424,916	432,027	434,780	436,956	430,697
37	Cotton small wares.	15,281	14,661	15,167	15,822	15,856
38	Crucibles.	321	312	322	318	319
39	Cutlery (not including silver and plated cutlery) and edge tools.	14,991	14,985	15,115	15,244	14,972
40	Dairymen's supplies; creamery, cheese-factory and butter-factory equipment; and poultrymen's and apiarists' supplies.	5,450	5,773	5,769	5,856	5,606
41	Dental goods and equipment.	4,559	4,310	4,329	4,462	4,490
42	Doors, shutters, and window sash and frames, metal.	9,557	9,366	9,458	9,464	9,456
43	Druggists' preparations.	10,688	10,936	11,057	10,947	10,743
44	Drug grinding.	677	654	679	685	684
45	Dyeing and finishing textiles.	79,327	78,757	80,698	81,643	80,948
46	Electrical machinery, apparatus, and supplies.	328,722	292,232	294,317	294,636	299,704
47	Electroplating.	5,928	5,504	5,803	5,969	6,256
48	Embroideries.	6,622	6,693	6,819	7,009	6,864
49	Emery wheels and other abrasive and polishing appliances.	3,873	3,713	3,826	3,919	3,963
50	Engines, turbines, tractors, and water wheels.	61,148	59,600	62,466	64,125	66,448
51	Engravers' materials.	313	317	326	321	318
52	Engraving (other than steel, copperplate, or wood), chasing, etching, and desinking.	2,240	2,169	2,215	2,230	2,257
53	Engraving, steel and copperplate, and plate printing.	10,130	9,411	9,448	9,522	9,621
54	Engraving, wood.	142	136	135	136	147
55	Envelopes.	10,367	10,031	10,177	10,291	10,404
56	Excelsior.	1,241	1,192	1,254	1,246	1,279
57	Explosives.	5,614	5,618	5,465	5,428	5,461

MANUFACTURES

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1929, 1925, 1919, 1914, 1909, AND BY INDUSTRIES, 1929—Continued

of this table]

NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY—CON.								Per cent minimum is of maximum	
May	June	July	August	September	October	November	December		
42,810	42,099	41,796	42,184	42,225	41,367	41,653	43,187	70.4	1
17,119	17,335	17,033	16,774	16,773	16,968	16,805	16,540	89.7	2
12,880	12,613	12,560	12,600	12,715	12,815	12,929	13,008	90.2	3
20,372	20,462	20,604	20,871	20,630	19,337	17,957	17,344	83.1	4
34,948	35,585	35,539	35,690	34,613	33,461	32,167	30,002	84.1	5
6,342	6,710	6,642	6,801	6,775	6,547	6,225	6,002	88.3	6
3,688	3,842	3,866	3,762	3,379	3,413	3,266	3,137	74.8	7
61,765	62,192	62,683	62,908	62,491	63,639	62,370	61,245	96.2	8
2,401	2,372	2,342	2,348	2,388	2,412	2,320	2,249	84.7	9
314	302	297	295	312	327	330	324	87.7	10
5,988	5,842	5,715	5,906	6,560	7,030	6,678	6,262	81.3	11
103,460	103,962	104,551	106,965	108,502	110,666	110,397	105,749	91.2	12
102,683	104,499	105,566	104,249	99,750	94,867	87,836	78,652	74.5	13
2,808	2,710	2,691	2,721	2,688	2,707	2,655	2,596	91.6	14
10,331	10,415	10,503	10,544	10,475	10,682	10,776	10,544	92.5	15
145,690	147,993	149,626	153,333	155,845	154,394	147,928	144,496	92.7	16
288	286	288	292	293	296	292	287	96.6	17
186,232	173,706	163,518	182,467	198,149	201,506	191,548	184,412	81.1	18
38,283	38,263	37,816	38,759	39,756	40,141	39,523	37,825	86.3	19
912	914	930	921	914	889	874	857	92.1	20
8,881	8,857	8,907	8,957	9,213	9,356	9,272	9,161	94.7	21
20,737	20,905	21,122	21,039	20,601	20,753	20,264	19,593	92.8	22
1,932	1,883	1,838	1,824	1,780	1,709	1,660	1,674	84.3	23
3,061	2,883	2,928	2,849	2,908	2,870	2,823	2,480	77.7	24
597	606	639	666	664	740	696	531	78.5	25
3,382	3,463	3,537	3,557	3,557	3,480	3,454	3,412	86.5	26
17,832	18,175	18,292	18,491	18,506	17,776	16,034	14,330	72.4	27
7,834	8,416	8,211	7,698	6,991	6,428	6,125	5,991	71.2	28
57,692	56,289	55,140	60,878	70,488	76,928	75,591	71,039	71.7	29
10,829	10,781	10,696	10,803	10,777	11,039	10,745	10,282	93.1	30
28,701	28,897	29,327	29,955	30,148	30,452	29,820	28,322	86.6	31
14,850	14,210	14,110	13,284	14,209	14,509	14,651	14,516	88.2	32
4,085	4,003	3,948	3,979	3,894	3,718	3,676	3,594	88.0	33
6,457	6,234	6,231	6,417	6,781	7,095	6,797	6,894	86.3	34
13,946	13,840	13,685	13,590	13,686	13,676	13,615	13,435	93.0	35
431,291	429,157	421,059	420,552	419,449	420,121	416,597	406,309	93.0	36
15,970	15,598	15,252	15,225	15,250	15,240	14,929	14,899	90.1	37
3,321	3,223	3,225	3,225	3,226	3,119	3,220	3,119	95.7	38
14,638	14,568	14,423	14,789	15,215	15,466	15,494	14,977	93.1	39
5,137	5,133	5,029	5,020	5,167	5,399	5,625	5,881	85.4	40
4,515	4,633	4,740	4,728	4,581	4,666	4,642	4,610	90.9	41
9,492	9,623	9,664	9,836	9,830	9,829	9,426	9,243	94.0	42
10,570	10,549	10,477	10,411	10,480	10,791	10,751	10,547	94.2	43
709	682	669	670	668	680	675	664	92.2	44
79,265	78,218	76,228	77,929	79,664	80,835	79,783	77,562	94.2	45
309,237	330,048	350,447	365,850	374,146	382,709	344,504	306,809	76.4	46
6,235	6,135	5,977	6,007	6,088	6,126	5,764	5,275	84.3	47
6,516	6,102	5,888	6,163	6,702	7,121	7,017	6,770	79.9	48
3,975	3,970	3,985	4,008	3,945	3,881	3,721	3,568	89.0	49
66,109	65,552	63,347	57,931	56,601	57,646	57,262	56,696	85.2	50
317	312	307	308	304	309	308	306	93.3	51
2,261	2,241	2,305	2,272	2,284	2,262	2,214	2,165	93.9	52
9,802	9,837	10,047	10,261	10,656	10,977	11,108	10,867	84.7	53
147	146	146	146	147	142	141	141	91.8	54
10,363	10,350	10,299	10,320	10,461	10,598	10,573	10,536	94.6	55
1,247	1,223	1,207	1,213	1,288	1,276	1,241	1,213	91.8	56
5,538	5,498	5,663	5,877	5,910	5,850	5,693	5,466	91.8	57

TABLE 12.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES,

[See note at head

	INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY			
			January	February	March	April
1	Fancy and miscellaneous articles, not elsewhere classified.	18,722	17,269	17,916	18,103	17,640
2	Feathers, plumes, and manufactures thereof.	257	191	205	230	277
3	Feeds, prepared, for animals and fowls.	10,223	10,133	10,056	10,185	10,017
4	Felt goods, wool, hair, or jute.	5,540	5,404	5,571	5,701	5,683
5	Fertilizers.	20,926	19,946	23,337	35,195	37,767
6	Files.	3,974	3,943	3,967	4,014	3,988
7	Firearms.	6,838	6,878	6,991	7,011	6,597
8	Fire extinguishers, chemical.	740	682	661	678	697
9	Fireworks.	1,811	1,855	1,934	1,955	2,004
10	Flags and banners.	988	884	875	906	937
11	Flavoring extracts and flavoring sirups.	5,041	4,618	4,709	4,857	5,076
12	Flax and hemp, dressed.	47	80	59	35	30
13	Flour and other grain-mill products.	27,028	25,177	26,803	27,092	26,337
14	Food preparations, not elsewhere classified.	10,616	10,077	10,314	10,653	10,563
15	Forgings, iron and steel, not made in plants operated in connection with rolling mills.	20,882	20,932	21,632	22,279	22,529
16	Foundry and machine-shop products, not elsewhere classified.	454,441	436,416	448,884	460,393	468,172
17	Foundry supplies.	853	847	859	883	889
18	Fuel: Briquettes and boulets.	426	445	414	409	381
19	Fur goods.	15,752	12,051	12,315	12,853	13,558
20	Furnishing goods, men's, not elsewhere classified.	26,588	24,601	25,908	26,788	26,765
21	Furniture, including store and office fixtures.	193,399	189,686	189,742	188,682	187,134
22	Furs, dressed.	5,167	4,556	5,196	5,554	5,518
23	Galvanizing and other coating, not done in plants operated in connection with rolling mills.	1,125	1,016	1,059	1,139	1,206
24	Gas and electric fixtures; lamps, lanterns, and reflectors.	23,580	23,097	23,693	23,804	24,141
25	Gas machines, gas meters, and water and other liquid meters.	6,101	5,697	5,832	5,907	5,925
26	Gas, manufactured, illuminating and heating.	43,065	42,359	42,261	41,946	42,866
27	Glass.	67,527	65,646	68,024	68,850	69,391
28	Glass products (except mirrors) made from purchased glass.	6,029	6,243	6,584	6,533	6,177
29	Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.	9,279	8,401	8,560	8,764	8,788
30	Gloves and mittens, leather.	9,203	8,267	8,677	8,873	8,928
31	Glue and gelatin.	2,993	3,180	3,151	3,159	3,112
32	Gold leaf and foil.	1,177	1,154	1,187	1,183	1,193
33	Gold, silver, and platinum, reducing and refining, not from the ore.	931	875	887	898	929
34	Graphite, ground and refined.	494	353	371	366	492
35	Grease and tallow, not including lubricating greases.	5,475	5,417	5,392	5,420	5,453
36	Haircloth.	450	443	446	439	445
37	Hair work.	359	330	352	354	356
38	Handkerchiefs.	6,014	5,748	5,934	6,062	6,212
39	Hand stamps and stencils and brands.	2,971	2,941	2,934	2,974	2,955
40	Hardware not elsewhere classified.	52,306	53,299	54,881	55,125	55,143
41	Hat and cap materials, men's.	2,564	2,638	2,759	2,893	2,677
42	Hats and caps, except felt and straw, men's.	5,826	5,704	5,818	6,018	5,966
43	Hats, fur-felt.	16,539	16,555	16,786	16,516	16,229
44	Hats, straw, men's.	3,380	3,951	4,080	4,100	4,145
45	Hats, wool-felt.	2,028	1,830	1,782	2,056	2,203
46	Hones, whetstones, and similar products.	174	166	169	171	167
47	Horse blankets, fly nets, and related products.	582	533	534	540	576
48	House-furnishing goods, not elsewhere classified.	15,794	14,549	15,229	15,794	15,818
49	Ice cream.	22,399	18,570	18,597	19,524	21,893
50	Ice, manufactured.	32,184	23,077	23,282	25,308	30,769
51	Ink, printing.	2,448	2,423	2,435	2,437	2,431
52	Ink, writing.	416	383	394	394	425
53	Instruments, professional and scientific.	16,876	16,509	17,209	17,840	17,738
54	Iron and steel: Blast furnaces.	24,960	24,929	24,697	24,649	24,823
55	Iron and steel, processed.	511	468	505	541	559
56	Iron and steel: Steel works and rolling mills.	394,574	385,670	391,303	400,296	407,307
57	Ivory, shell, and bone work, not including buttons, combs, or hairpins.	391	372	382	389	395
58	Jewelry.	27,922	27,268	27,695	27,895	27,412
59	Jewelry and instrument cases.	2,269	2,688	2,154	2,193	2,161
60	Jute goods.	4,931	4,843	4,943	4,970	4,883
61	Knit goods.	208,488	195,756	200,576	205,256	205,992
62	Labels and tags.	4,474	4,197	4,322	4,417	4,398
63	Lace goods.	6,854	6,774	7,019	7,188	7,137
64	Lapidary work.	506	576	560	575	511

1929, 1925, 1919, 1914, 1909, AND BY INDUSTRIES, 1929—Continued  
of this table]

NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY—CON.								Per cent minimum is of maximum	
May	June	July	August	September	October	November	December		
17,397	17,337	17,998	19,089	20,267	21,385	21,219	19,041	80.8	1
257	252	255	287	293	289	290	260	65.2	2
10,050	10,164	9,904	10,115	10,403	10,521	10,578	10,546	98.6	3
5,628	5,571	5,418	5,392	5,505	5,632	5,589	5,385	94.5	4
18,688	14,847	14,654	15,287	18,961	17,941	17,381	17,210	38.5	5
3,986	3,957	3,992	4,017	4,061	4,044	3,876	3,845	94.7	6
6,948	6,869	6,885	6,844	6,798	6,728	6,633	6,477	92.4	7
727	710	761	771	788	807	815	786	81.1	8
2,073	1,941	1,423	1,543	1,695	1,737	1,775	1,801	68.6	9
1,015	963	921	905	917	989	969	976	86.2	10
5,219	5,502	5,549	5,454	5,164	4,888	4,801	4,688	83.2	11
62	53	86	64	17	5	23	53	5.8	12
26,408	26,699	25,444	27,699	28,446	28,483	28,068	27,684	88.4	13
10,573	10,695	10,450	10,502	10,780	11,335	11,074	10,372	88.9	14
22,286	21,988	21,600	21,218	20,706	18,972	18,171	18,270	80.6	15
472,217	470,263	467,098	464,773	459,608	451,701	432,205	421,560	89.3	16
879	867	851	828	840	838	838	821	92.4	17
409	346	336	372	439	548	518	499	61.3	18
14,060	16,124	17,614	18,616	19,427	19,440	17,581	14,785	62.0	19
26,783	26,655	26,000	24,445	26,330	28,199	28,796	27,785	84.9	20
186,100	189,019	190,549	197,540	206,339	208,681	199,963	187,354	89.2	21
5,327	5,305	5,303	5,658	5,623	5,410	4,557	4,000	70.7	22
1,181	1,201	1,189	1,170	1,124	1,154	1,044	1,027	84.2	23
24,101	23,672	23,339	23,999	24,613	24,348	22,696	21,461	87.2	24
6,051	6,175	6,173	6,211	6,279	6,294	6,353	6,314	89.7	25
43,117	43,472	43,912	43,973	43,660	43,514	43,206	42,489	95.4	26
68,718	69,288	65,822	67,072	67,915	68,732	67,439	68,480	91.4	27
5,811	5,709	5,878	6,133	6,136	5,816	5,751	5,598	85.4	28
8,950	9,114	9,147	9,397	9,776	10,070	10,234	10,148	82.1	29
8,973	9,050	9,269	9,571	9,675	9,740	9,825	9,561	84.4	30
2,995	2,817	2,670	2,537	2,858	3,021	3,204	3,204	79.0	31
1,190	1,187	1,171	1,189	1,173	1,172	1,172	1,187	95.5	32
928	912	924	940	968	985	965	957	88.8	33
532	570	574	594	719	694	405	260	36.2	34
5,383	5,410	5,692	5,628	5,597	5,525	5,461	5,411	95.6	35
444	447	460	459	462	451	452	448	95.0	36
347	346	358	371	378	379	378	362	87.1	37
6,177	5,994	5,893	5,832	5,959	6,182	6,165	6,007	92.5	38
2,957	2,975	2,938	2,943	2,981	3,000	3,029	3,022	96.9	39
54,396	53,788	53,425	52,635	51,369	50,114	47,405	46,084	83.6	40
2,641	2,541	2,519	2,502	2,502	2,349	2,290	2,290	77.8	41
5,850	5,689	5,635	5,775	5,913	6,039	5,892	5,612	92.9	42
16,102	16,411	16,739	16,811	16,749	16,654	16,524	16,393	95.8	43
3,960	3,192	2,138	1,543	2,348	2,203	3,805	4,090	37.2	44
2,284	2,369	2,030	2,252	2,243	1,999	1,717	1,577	66.6	45
166	168	173	188	183	187	180	170	88.3	46
636	643	599	597	571	586	590	577	82.9	47
15,502	14,896	14,874	14,903	16,531	17,769	17,653	16,523	80.9	48
23,741	26,745	27,778	27,060	24,681	21,336	19,795	19,071	66.9	49
34,245	40,049	43,093	43,184	40,289	32,342	26,493	24,078	53.4	50
2,440	2,437	2,461	2,488	2,453	2,462	2,479	2,431	97.4	51
430	433	442	435	445	436	405	378	84.9	52
17,879	17,690	17,283	16,957	17,538	16,183	15,206	14,874	79.9	53
25,304	25,327	25,300	25,415	25,104	25,910	24,785	23,271	89.8	54
531	535	530	538	513	492	474	447	80.0	55
413,918	410,441	410,862	410,763	398,113	391,183	364,844	360,189	84.6	56
403	410	404	389	385	386	391	381	90.7	57
27,085	26,878	26,805	27,589	29,247	30,002	29,555	27,685	89.3	58
2,208	2,251	2,209	2,336	2,235	2,445	2,434	2,418	82.3	59
4,839	4,837	4,859	4,925	4,938	4,997	5,064	5,075	95.2	60
206,538	207,287	205,186	207,995	214,097	221,508	219,956	212,310	88.1	61
4,423	4,482	4,518	4,547	4,593	4,683	4,597	4,534	90.2	62
6,940	6,788	6,591	6,478	6,652	6,884	6,901	6,933	90.1	63
508	484	531	565	477	422	447	410	71.2	64

TABLE 12.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES,

[See note at head

	INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY			
			January	February	March	April
1	Lasts and related products.....	1,760	1,804	1,816	1,742	1,670
2	Leather goods, not elsewhere classified.....	6,035	5,496	5,748	6,014	6,110
3	Leather: Tanned, curried, and finished.....	49,932	49,572	49,962	49,160	48,552
4	Lime.....	8,554	7,938	7,994	8,744	9,177
5	Linen goods.....	2,195	2,159	2,148	2,205	2,227
6	Linoleum.....	5,544	5,936	5,866	5,665	5,456
7	Liquors, vinous.....	186	178	186	189	174
8	Lithographing.....	18,979	18,776	18,777	18,877	18,917
9	Locomotives, not made in railroad repair shops.....	11,045	8,089	8,564	9,690	11,378
10	Lubricating oils and greases, not made in petroleum refineries.....	2,577	2,530	2,487	2,478	2,485
11	Lumber and timber products, not elsewhere classified.....	419,084	400,713	400,950	416,529	421,545
12	Macaroni, spaghetti, vermicelli, and noodles.....	5,072	5,141	5,286	5,304	4,864
13	Machine-tool accessories and small metal-working tools, not elsewhere classified.....	26,682	24,432	25,349	27,035	28,311
14	Machine tools.....	47,391	48,799	45,382	46,350	46,963
15	Malt.....	590	674	658	657	630
16	Marble, granite, slate, and other stone products.....	37,817	34,626	34,881	36,937	38,394
17	Matches.....	3,760	3,884	3,830	3,824	3,756
18	Mats and matting, grass and coir.....	467	560	586	584	630
19	Mattresses and bed springs, not elsewhere classified.....	17,187	15,792	16,086	16,413	16,651
20	Meat packing, wholesale.....	122,505	128,535	125,107	118,731	116,612
21	Millinery.....	32,206	32,099	34,939	37,760	36,681
22	Minerals and earths, ground or otherwise treated.....	1,679	1,603	1,618	1,636	1,678
23	Mirror and picture frames.....	4,446	4,093	4,406	4,547	4,442
24	Mirrors, framed and unframed.....	4,782	4,711	4,775	4,876	4,835
25	Models and patterns, not including paper patterns.....	6,778	6,557	6,506	6,720	6,761
26	Motion pictures, not including projection in theaters.....	10,784	9,929	9,694	9,118	9,560
27	Motor-vehicle bodies and motor-vehicle parts.....	221,332	222,623	239,677	251,662	254,561
28	Motor vehicles, not including motor cycles.....	226,116	235,612	259,678	262,467	262,808
29	Motor cycles, bicycles, and parts.....	4,392	4,295	4,364	4,521	4,551
30	Mucilage, paste, and other adhesives, except glue and rubber cement.....	414	401	413	418	406
31	Musical instrument parts and materials: Piano and organ.....	3,090	3,506	3,434	3,207	3,105
32	Musical instruments and parts and materials, not elsewhere classified.....	3,176	3,487	3,368	3,262	3,169
33	Musical instruments: Organs.....	2,389	2,487	2,476	2,466	2,409
34	Musical instruments: Pianos.....	9,970	10,628	10,573	10,273	10,032
35	Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.....	2,027	1,999	2,010	2,023	2,008
36	Needles, pins, hooks and eyes, and snap fasteners.....	6,242	5,872	6,010	6,013	6,056
37	Nets and seines.....	903	910	938	945	919
38	Nonferrous-metal alloys and products, not including aluminum products.....	79,183	79,288	81,602	83,641	83,725
39	Oil, cake, and meal, cottonseed.....	15,825	22,028	18,521	14,525	10,953
40	Oil, cake, and meal, linseed.....	2,715	2,710	2,767	2,772	2,705
41	Oils, essential.....	265	208	226	243	270
42	Oils, not elsewhere classified.....	1,234	1,192	1,161	1,173	1,220
43	Oilcloth.....	1,412	1,405	1,359	1,366	1,304
44	Oleomargarine, not made in meat-packing establishments.....	1,534	1,596	1,585	1,594	1,549
45	Optical goods.....	9,701	9,523	9,561	9,723	9,843
46	Paints and varnishes.....	29,211	28,309	28,678	29,362	29,908
47	Paper.....	103,320	102,082	103,231	103,311	102,869
48	Paper goods, not elsewhere classified.....	20,227	19,395	19,858	20,086	20,132
49	Patent or proprietary medicines and compounds.....	16,434	17,126	17,432	17,151	16,629
50	Paving materials: Asphalt, tar, crushed slag, and mixtures.....	2,375	1,816	1,797	1,853	2,295
51	Peanuts, walnuts, and other nuts, processed or shelled.....	7,933	9,223	9,005	8,078	7,022
52	Pencils, lead (including mechanical).....	5,703	5,513	5,650	5,782	5,817
53	Pens, fountain and stylographic; pen points, gold, steel, and brass.....	4,600	4,293	4,331	4,389	4,340
54	Perfumes, cosmetics, and other toilet preparations.....	13,109	13,693	12,864	13,150	12,852

MANUFACTURES

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1929, 1925, 1919, 1914, 1909, AND BY INDUSTRIES, 1929—Continued  
of this table]

NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY—CON.								Per cent minimum is of maximum
May	June	July	August	September	October	November	December	
1,666	1,754	1,825	1,825	1,807	1,762	1,711	1,735	91.3
6,054	5,935	6,046	6,044	6,234	6,444	6,363	5,928	85.3
48,335	48,613	49,764	50,976	51,795	51,833	50,933	49,692	93.3
9,237	9,010	9,025	8,920	8,720	8,452	8,039	7,394	80.0
2,209	2,203	2,228	2,227	2,209	2,193	2,213	2,115	94.9
5,366	5,360	5,397	5,528	5,477	5,378	5,506	5,592	90.3
164	162	178	172	199	208	216	201	75.0
19,048	18,897	18,902	18,990	19,118	19,241	19,182	19,018	97.6
12,122	12,218	12,749	12,291	11,662	11,538	11,241	11,045	63.1
2,698	2,704	2,742	2,690	2,648	2,549	2,509	2,400	87.5
430,734	431,848	430,665	435,156	430,250	428,804	413,091	388,719	89.3
4,833	4,788	4,612	4,822	5,175	5,425	5,339	5,272	85.0
28,979	28,411	27,381	27,086	27,089	27,527	25,684	22,902	79.0
47,279	47,857	48,593	48,798	49,162	49,542	48,595	46,369	88.4
571	516	482	523	617	588	588	580	71.5
39,068	39,475	39,143	39,751	39,528	38,908	37,462	35,631	87.1
3,671	3,631	3,546	3,627	3,810	3,892	3,859	3,790	91.0
504	356	294	374	365	464	484	503	43.5
16,903	17,229	17,171	17,872	19,189	19,584	17,192	16,163	80.6
118,030	121,259	122,444	120,580	122,677	123,500	124,769	127,821	90.7
32,196	28,822	26,381	32,106	35,371	33,510	28,762	27,841	69.9
1,681	1,683	1,714	1,750	1,740	1,751	1,707	1,594	91.0
4,266	4,193	4,205	4,331	4,627	4,867	4,820	4,558	84.1
4,765	4,681	4,704	4,822	4,892	4,921	4,806	4,599	93.5
6,716	6,624	6,657	6,765	7,013	7,110	7,011	6,890	91.5
10,722	10,805	11,422	11,616	11,938	11,506	11,690	11,407	76.3
254,327	236,684	235,215	230,085	224,757	195,473	152,111	158,783	59.8
255,247	241,309	233,973	223,773	219,172	195,283	161,956	162,130	61.6
4,588	4,446	4,285	4,267	4,369	4,398	4,377	4,241	92.4
408	417	420	424	422	430	408	403	93.3
2,901	2,767	2,543	2,982	3,166	3,277	3,268	2,870	72.5
3,068	2,972	2,875	3,034	3,124	3,261	3,314	3,174	82.4
2,351	2,345	2,372	2,360	2,390	2,367	2,352	2,298	92.4
9,559	9,348	9,220	9,945	10,130	10,626	10,479	8,825	83.0
2,028	2,041	1,939	2,073	2,068	2,088	2,053	1,998	93.0
6,055	6,399	6,302	6,358	6,726	6,790	6,309	6,015	86.5
891	892	916	918	948	831	873	858	87.7
83,091	81,714	80,195	79,770	78,894	76,908	72,760	68,606	81.9
7,300	6,309	6,670	8,880	18,068	26,155	26,109	24,375	24.1
2,704	2,611	2,622	2,656	2,830	2,994	2,648	2,512	33.9
286	261	267	274	316	301	281	247	65.8
1,226	1,276	1,231	1,257	1,294	1,246	1,357	1,180	85.6
1,339	1,379	1,366	1,386	1,438	1,497	1,451	1,506	88.3
1,502	1,474	1,438	1,466	1,442	1,536	1,614	1,607	88.3
9,781	9,778	9,649	9,542	9,678	9,834	9,901	9,799	94.2
30,269	30,216	29,371	29,652	29,390	29,114	28,237	27,530	91.0
102,847	103,614	103,508	104,241	104,036	104,309	103,489	102,362	97.9
20,337	20,469	20,590	20,582	20,865	20,615	20,365	19,726	93.9
16,160	15,862	15,781	15,842	16,305	16,508	16,338	16,062	90.5
2,562	2,725	2,739	2,785	2,733	2,754	2,489	2,007	62.4
6,950	6,447	4,791	5,344	6,690	9,789	10,657	10,596	45.0
5,786	5,747	5,649	5,798	5,896	5,882	5,715	5,202	88.2
4,375	4,356	4,394	4,623	5,028	5,183	5,080	4,801	82.9
12,850	12,788	12,870	13,106	13,535	13,790	13,630	13,177	92.0

TABLE 12.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES,

[See note at head

	INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY			
			January	February	March	April
1	Petroleum refining.....	80,596	74,444	75,913	77,063	79,001
2	Phonographs.....	14,416	13,286	11,338	11,345	11,945
3	Photo-engraving, not done in printing establishments.....	12,353	12,159	12,218	12,343	12,407
4	Photographic apparatus and materials.....	12,967	11,600	11,858	12,156	12,537
5	Pipes (tobacco).....	1,680	1,716	1,783	1,795	1,770
6	Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	90,134	83,511	88,779	90,071	91,157
7	Plated ware.....	10,728	10,369	10,570	10,641	10,577
8	Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	27,960	29,255	29,610	29,593	29,516
9	Pocketbooks, purses, and cardcases.....	10,430	9,934	10,097	10,299	10,256
10	Pottery, including porcelain ware.....	35,409	34,323	35,283	35,706	35,922
11	Poultry killing, dressing, and packing, wholesale.....	7,769	5,677	5,156	5,257	5,875
12	Printing and publishing, book and job.....	150,649	149,949	151,215	151,429	148,887
13	Printing and publishing, music.....	810	842	843	836	815
14	Printing and publishing, newspaper and periodical.....	129,660	128,233	128,618	129,539	129,204
15	Printing materials, not including type or ink.....	1,004	1,011	998	1,006	1,026
16	Pulp goods.....	3,558	3,692	3,591	3,645	3,600
17	Pulp (wood and other fiber).....	24,729	24,384	24,545	25,088	25,148
18	Pumps (hand and power) and pumping equipment.....	23,106	21,070	22,162	22,611	23,243
19	Rayon and allied products.....	39,106	35,600	35,827	36,043	36,576
20	Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	9,784	9,442	9,971	10,814	11,308
21	Refrigerators, mechanical.....	16,883	13,719	15,436	16,564	20,023
22	Regalia, badges, and emblems.....	1,757	1,623	1,657	1,647	1,684
23	Rice cleaning and polishing.....	1,589	1,723	1,738	1,527	1,314
24	Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	6,027	5,131	5,596	5,885	6,262
25	Rubber goods other than tires, inner tubes, and boots and shoes.....	40,226	39,096	40,385	41,260	41,739
26	Rubber tires and inner tubes.....	83,263	84,751	86,757	87,579	89,106
27	Saddlery and harness.....	3,339	3,628	3,680	3,589	3,479
28	Safes and vaults.....	3,033	3,074	3,069	3,052	3,006
29	Salt.....	5,458	5,361	5,401	5,390	5,259
30	Sand-lime brick.....	566	613	572	624	698
31	Sandpaper, emery paper, and other abrasive paper and cloth.....	1,228	1,114	1,113	1,192	1,229
32	Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	5,897	5,930	5,905	5,771	5,719
33	Saws.....	4,137	4,229	4,193	4,189	4,097
34	Scales and balances.....	4,118	3,901	4,011	4,145	4,063
35	Screw-machine products and wood screws.....	19,881	19,689	20,346	21,098	21,139
36	Sewing machines and attachments.....	10,467	10,227	10,342	10,381	10,450
37	Ship and boat building, steel and wooden, including repair work.....	55,089	48,005	50,189	53,767	59,548
38	Shirts.....	59,830	58,175	59,346	59,794	60,067
39	Shortenings (not including lard) and vegetable cooking oils.....	2,712	2,687	2,816	2,706	2,647
40	Signs and advertising novelties.....	20,000	18,268	18,642	18,883	19,378
41	Silk and rayon manufactures.....	130,467	129,090	131,854	132,670	132,509
42	Silversmithing and silverware.....	5,007	4,876	4,923	5,010	4,978
43	Smelting and refining, copper.....	14,544	14,237	14,169	14,245	14,762
44	Smelting and refining, lead.....	4,819	4,803	4,570	4,624	4,834
45	Smelting and refining, metals other than gold, silver, or platinum, not from the ore.....	4,134	3,945	4,123	4,217	4,232
46	Smelting and refining, zinc.....	11,618	11,481	11,481	11,629	11,725
47	Soap.....	14,363	14,172	14,413	14,414	14,208
48	Soda-water apparatus.....	2,764	2,418	2,469	2,530	2,776
49	Sporting and athletic goods, not including firearms or ammunition.....	10,793	11,029	11,075	11,200	11,190
50	Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	5,842	5,791	5,973	6,051	6,508
51	Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	40,000	37,486	39,396	41,623	41,845
52	Stationery goods, not elsewhere classified.....	11,078	10,531	10,704	10,980	10,882
53	Statuary and art goods, factory product.....	2,112	2,030	2,015	2,080	2,059
54	Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	7,266	6,603	7,033	7,215	7,539
55	Steam fittings and steam and hot-water heating apparatus.....	39,621	39,728	40,865	40,403	39,167



MANUFACTURES

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1929, 1925, 1919, 1914, 1909, AND BY INDUSTRIES, 1929—Continued

of this table]

NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY—con.								Per cent minimum is of maximum	
May	June	July	August	September	October	November	December		
80,641	82,662	82,972	84,176	82,969	82,551	82,191	82,571	88.4	1
13,550	13,907	15,243	17,379	17,919	17,917	15,072	13,285	60.6	2
12,364	12,305	12,301	12,312	12,381	12,450	12,482	12,517	97.1	3
12,641	12,877	13,066	13,087	13,346	13,970	14,316	14,154	81.0	4
1,677	1,583	1,550	1,508	1,600	1,754	1,741	1,685	84.0	5
91,982	92,806	92,909	92,964	92,037	90,764	86,635	82,969	89.3	6
10,571	10,587	10,585	10,639	10,953	11,203	11,165	10,852	92.7	7
29,281	28,694	28,046	28,124	27,661	26,915	25,623	25,305	78.4	8
9,153	8,312	9,321	10,552	11,593	12,255	12,161	11,194	67.7	9
36,037	35,765	34,091	35,331	35,614	36,305	35,695	34,845	93.9	10
6,521	7,357	7,912	8,514	9,085	9,858	11,272	10,750	45.7	11
149,068	148,892	149,103	150,803	152,413	151,269	152,375	152,889	97.1	12
793	780	762	783	796	814	828	822	90.4	13
129,225	128,759	127,919	128,216	129,885	131,640	132,209	132,474	96.6	14
982	967	982	1,021	1,025	1,079	1,038	916	84.9	15
3,538	3,593	3,643	3,827	3,797	3,642	3,095	3,635	79.3	16
25,196	25,336	24,827	24,834	24,437	24,384	24,337	24,235	95.7	17
23,686	23,978	23,954	24,044	23,672	23,551	22,839	22,469	87.6	18
84,070	36,280	38,754	40,592	42,188	43,584	44,808	44,055	78.0	19
11,431	10,949	9,929	8,714	8,668	8,674	8,806	8,798	75.0	20
19,914	20,233	19,523	17,182	18,756	14,492	13,581	13,176	65.1	21
1,746	1,779	1,771	1,799	1,877	1,921	1,862	1,712	84.5	22
1,271	1,121	1,163	1,259	1,714	2,301	2,083	1,854	48.7	23
6,598	6,637	6,412	6,422	6,409	6,106	5,598	5,267	77.3	24
41,713	41,387	41,300	40,981	40,352	39,804	38,074	36,623	87.7	25
90,912	91,777	90,584	86,542	80,764	74,813	69,117	66,459	72.4	26
3,273	3,122	3,030	3,052	3,204	3,293	3,339	3,395	82.8	27
2,995	2,990	3,002	2,967	3,040	3,050	3,064	3,092	96.0	28
5,139	5,258	5,588	5,661	5,669	5,776	5,603	5,394	89.9	29
628	645	618	579	500	491	460	461	71.3	30
1,290	1,304	1,204	1,213	1,243	1,338	1,294	1,200	83.2	31
5,802	5,856	5,906	5,902	5,981	5,960	6,005	6,033	94.8	32
4,101	4,132	3,952	4,114	4,152	4,146	4,183	4,153	93.4	33
4,061	4,121	4,157	4,206	4,257	4,259	4,165	4,087	91.6	34
21,293	21,538	21,489	20,925	19,691	18,725	16,723	15,915	73.9	35
10,455	10,534	10,501	10,589	10,531	10,576	10,571	10,451	96.6	36
59,305	56,500	55,276	52,704	52,510	55,642	57,003	58,622	80.6	37
59,554	58,845	58,627	59,283	60,481	61,396	61,483	60,926	94.7	38
2,639	2,716	2,555	2,670	2,827	2,799	2,817	2,833	91.4	39
19,917	20,237	20,352	20,535	20,667	21,142	21,139	20,835	86.5	40
131,615	128,894	128,596	129,666	130,328	131,548	130,919	127,918	96.4	41
4,995	4,960	4,899	4,936	5,043	5,184	5,214	5,062	93.5	42
14,735	14,607	14,722	14,628	14,476	14,720	14,672	14,559	96.0	43
4,890	4,884	5,028	4,859	4,853	4,970	4,810	4,704	90.9	44
4,168	4,172	4,191	4,241	4,199	4,129	4,099	3,806	91.9	45
11,689	11,748	11,658	11,751	11,716	11,868	11,480	11,192	94.3	46
14,005	13,895	13,919	14,280	14,925	15,191	14,783	14,220	91.0	47
2,585	2,918	3,043	2,980	2,889	2,776	2,831	2,672	79.5	48
10,950	10,694	10,447	10,300	10,484	10,643	10,686	10,823	92.0	49
6,382	6,153	5,996	5,808	5,778	5,447	5,117	5,107	78.5	50
41,529	41,258	41,306	41,355	40,952	40,392	37,561	35,802	84.4	51
10,948	10,987	11,016	11,226	11,488	11,431	11,491	11,253	91.6	52
2,002	2,049	2,068	2,113	2,179	2,224	2,348	2,173	85.3	53
7,948	8,061	7,913	7,412	7,106	7,038	6,804	6,468	80.2	54
38,429	38,400	38,496	38,857	40,351	41,442	40,913	38,400	92.7	55

TABLE 12.—WAGE EARNERS, BY MONTHS, FOR ALL INDUSTRIES,

[See note at head

	INDUSTRY	Average number employed during year	NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY			
			January	February	March	April
1	Steel barrels, kegs, and drums.....	4, 110	3, 537	3, 540	3, 712	4, 045
2	Stereotyping and electrotyping, not done in printing establishments.	6, 487	6, 819	6, 410	6, 480	6, 524
3	Stoves and ranges (other than electric) and warm-air furnaces.	46, 616	42, 637	44, 668	45, 503	46, 114
4	Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.	54, 947	51, 952	51, 861	52, 323	53, 674
5	Sugar, beet.....	7, 496	3, 591	2, 620	2, 673	2, 758
6	Sugar, cane, not including products of refineries.	2, 319	1, 653	693	608	652
7	Sugar refining, cane.....	13, 912	13, 458	13, 887	14, 523	14, 536
8	Surgical and orthopedic appliances, including artificial limbs.	7, 910	7, 462	7, 643	7, 755	7, 795
9	Suspenders, garters, and other elastic woven goods, made from purchased webbing.	4, 341	3, 941	4, 170	4, 381	4, 301
10	Tanning materials, natural dyestuffs, mordants and assistants, and sizes.	2, 419	2, 370	2, 411	2, 434	2, 465
11	Textile machinery and parts.....	27, 019	25, 760	26, 368	26, 838	27, 054
12	Theatrical scenery and stage equipment.....	547	537	568	545	517
13	Tin and other foils, not including gold foil.....	1, 710	1, 544	1, 638	1, 682	1, 719
14	Tin cans and other tinware, not elsewhere classified.	31, 497	28, 868	29, 410	30, 409	31, 447
15	Tobacco: Chewing and smoking, and snuff.....	10, 811	10, 824	11, 147	11, 177	10, 983
16	Tools, not including edge tools, machine tools, files, or saws.	19, 305	18, 752	19, 522	19, 859	19, 993
17	Toys (not including children's wheel goods or sleds), games, and playground equipment.	16, 660	12, 839	13, 748	14, 913	15, 364
18	Trimnings (not made in textile mills) and stamped art goods for embroidering.	7, 934	8, 042	8, 282	8, 382	8, 184
19	Trunks, suitcases, and bags.....	11, 359	9, 973	10, 662	11, 168	11, 466
20	Turpentine and rosin.....	40, 157	39, 033	39, 022	39, 352	40, 618
21	Type founding.....	467	446	441	450	470
22	Typewriters and parts.....	16, 945	16, 012	16, 412	16, 620	16, 776
23	Umbrellas, parasols, and canes.....	2, 855	2, 742	2, 726	2, 703	2, 697
24	Upholstering materials, not elsewhere classified.	1, 410	1, 362	1, 430	1, 408	1, 420
25	Vinegar and cider.....	979	708	644	684	676
26	Wall paper.....	4, 705	5, 209	4, 709	4, 446	4, 445
27	Wall plaster, wall board, insulating board, and floor composition.	7, 462	7, 011	7, 026	7, 290	7, 393
28	Washing machines, wringers, driers, and ironing machines, for household use.	8, 189	7, 626	7, 888	8, 228	8, 462
29	Waste.....	3, 905	3, 944	3, 948	3, 973	3, 994
30	Watch and clock materials and parts, except watchcases.	311	318	334	346	335
31	Watchcases.....	3, 404	3, 364	3, 399	3, 431	3, 380
32	Watches and watch movements.....	10, 738	11, 127	11, 209	10, 987	10, 740
33	Whips.....	57	57	54	56	58
34	Windmills and windmill towers.....	1, 554	1, 523	1, 558	1, 577	1, 589
35	Window and door screens and weather strip.....	4, 034	3, 835	3, 780	3, 980	4, 348
36	Window shades and fixtures.....	4, 708	4, 588	4, 588	4, 735	4, 752
37	Wire, drawn from purchased bars or rods.....	22, 467	21, 326	21, 587	21, 731	22, 117
38	Wirework, not elsewhere classified.....	22, 388	21, 951	22, 967	23, 023	22, 768
39	Wood distillation and charcoal manufacture.....	4, 648	4, 539	4, 544	4, 613	4, 524
40	Wood preserving.....	13, 077	11, 800	12, 236	12, 835	13, 120
41	Wood turned and shaped and other wooden goods, not elsewhere classified.	18, 712	18, 756	19, 274	19, 558	19, 656
42	Woolen goods.....	58, 474	60, 482	60, 485	60, 387	61, 439
43	Wool pulling.....	596	532	602	609	619
44	Wool scouring.....	1, 302	1, 344	1, 403	1, 254	1, 152
45	Wool shoddy.....	1, 762	1, 954	1, 885	1, 884	1, 890
46	Worsted goods.....	88, 485	89, 356	90, 960	89, 911	87, 950
47	Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.	11, 417	11, 524	11, 281	10, 455	10, 096

MANUFACTURES

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1929, 1925, 1919, 1914, 1909, AND BY INDUSTRIES, 1929—Continued

of this table]

NUMBER EMPLOYED ON 15TH DAY OF MONTH OR NEAREST REPRESENTATIVE DAY—con.								Per cent minimum is of maximum	
May	June	July	August	September	October	November	December		
4, 293	4, 341	4, 364	4, 499	4, 403	4, 371	4, 188	4, 088	79.7	1
6, 532	6, 528	6, 448	6, 442	6, 410	6, 503	6, 556	6, 690	94.5	2
46, 612	46, 579	46, 336	47, 823	49, 728	51, 301	47, 687	44, 406	83.1	3
54, 738	55, 055	56, 600	57, 929	57, 764	57, 371	56, 076	54, 026	89.5	4
2, 870	3, 114	3, 548	5, 100	6, 129	21, 379	22, 164	14, 003	11.8	5
695	867	989	1, 018	1, 226	4, 988	7, 204	7, 238	84.0	6
13, 563	14, 448	14, 675	14, 981	13, 603	14, 030	13, 039	12, 197	81.4	7
7, 856	7, 806	7, 859	8, 159	8, 251	8, 404	8, 045	7, 890	88.8	8
4, 283	4, 107	4, 347	4, 430	4, 631	4, 769	4, 654	4, 082	82.6	9
2, 419	2, 499	2, 425	2, 397	2, 364	2, 441	2, 386	2, 417	94.6	10
27, 365	27, 687	27, 812	27, 662	27, 363	27, 251	26, 737	26, 336	92.6	11
562	518	438	515	552	588	586	583	83.0	12
1, 701	1, 779	1, 849	1, 871	1, 909	1, 845	1, 554	1, 430	74.9	13
31, 438	32, 983	34, 067	34, 436	33, 858	32, 190	30, 588	28, 271	82.1	14
10, 875	10, 757	10, 815	10, 847	10, 433	10, 782	10, 642	10, 451	93.3	15
20, 125	19, 805	19, 242	19, 170	19, 073	19, 129	18, 754	18, 237	90.6	16
15, 869	16, 198	16, 683	17, 807	18, 881	20, 287	20, 144	17, 183	63.3	17
7, 928	7, 617	7, 047	7, 547	8, 205	8, 234	7, 938	7, 802	84.1	18
11, 550	11, 780	11, 705	11, 797	11, 973	11, 911	11, 499	10, 820	83.3	19
40, 603	40, 825	40, 713	40, 720	40, 440	40, 523	40, 199	39, 823	95.6	20
475	489	483	486	472	475	462	449	90.2	21
16, 844	16, 940	17, 280	17, 325	17, 453	17, 504	17, 375	16, 801	91.5	22
2, 714	2, 716	2, 706	2, 775	2, 936	3, 147	3, 280	3, 115	82.2	23
1, 389	1, 357	1, 352	1, 375	1, 398	1, 440	1, 495	1, 493	90.4	24
719	724	779	866	1, 265	1, 844	1, 771	1, 072	34.9	25
4, 417	4, 228	4, 077	4, 223	4, 811	5, 112	5, 354	5, 427	75.1	26
7, 614	7, 789	7, 938	8, 098	8, 065	7, 847	7, 081	6, 897	79.0	27
8, 440	8, 440	8, 359	8, 533	8, 596	8, 368	7, 968	7, 363	85.7	28
3, 946	3, 871	3, 931	3, 918	3, 856	3, 897	3, 846	3, 741	93.7	29
326	299	298	297	295	293	287	309	85.7	30
3, 299	3, 272	3, 227	3, 322	3, 513	3, 634	3, 527	3, 415	88.8	31
10, 532	10, 417	10, 377	10, 519	10, 648	10, 871	10, 828	10, 601	92.6	32
61	64	62	53	51	48	54	61	75.0	33
1, 603	1, 574	1, 571	1, 535	1, 544	1, 546	1, 535	1, 489	92.9	34
4, 612	4, 546	4, 087	3, 798	3, 931	3, 925	3, 823	3, 742	81.1	35
4, 860	4, 837	4, 780	4, 717	4, 814	4, 810	4, 580	4, 429	91.1	36
22, 641	23, 011	23, 483	23, 933	24, 439	24, 764	21, 384	19, 194	77.5	37
22, 167	22, 192	22, 589	22, 640	23, 697	22, 883	21, 301	20, 472	86.4	38
4, 495	4, 651	4, 588	4, 575	4, 627	4, 788	4, 908	4, 929	91.2	39
13, 442	13, 586	13, 876	13, 934	13, 392	13, 066	12, 940	12, 694	84.7	40
19, 279	18, 790	18, 159	18, 269	18, 384	18, 735	18, 184	17, 495	89.0	41
61, 215	61, 764	59, 883	57, 978	57, 082	57, 518	52, 169	51, 290	83.0	42
612	583	563	564	608	616	598	599	91.0	43
1, 170	1, 233	1, 307	1, 303	1, 322	1, 337	1, 381	1, 416	81.4	44
1, 780	1, 770	1, 798	1, 716	1, 705	1, 683	1, 600	1, 432	75.8	45
89, 423	87, 895	86, 266	87, 718	89, 672	91, 129	87, 191	84, 346	92.6	46
12, 199	12, 088	12, 428	11, 331	10, 648	11, 249	11, 601	12, 172	80.7	47

TABLE 13.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES,

[The month of maximum employment is indicated by bold-faced

DIVISION AND STATE		A average number employed during year	Number employed on 15th day of month or nearest representative day			
			January	February	March	April
United States:						
1	1929.....	8,838,743	8,492,857	8,677,823	8,835,116	8,902,946
2	1925.....	8,384,261	8,124,887	8,230,830	8,342,641	8,323,608
3	1919 <sup>1</sup> .....	9,000,059	8,784,866	8,589,745	8,585,615	8,572,763
4	1914.....	6,896,190	6,936,874	7,002,498	7,103,092	7,077,018
5	1909.....	6,472,616	6,067,633	6,155,197	6,281,087	6,295,203
<i>Divisions and States: 1929</i>						
GEOGRAPHIC DIVISIONS:						
6	New England.....	1,098,514	1,071,615	1,095,575	1,108,149	1,106,233
7	Middle Atlantic.....	2,562,340	2,466,462	2,514,813	2,556,669	2,564,351
8	East North Central.....	2,542,176	2,462,696	2,542,477	2,588,045	2,611,940
9	West North Central.....	474,115	450,207	458,428	462,560	467,535
10	South Atlantic.....	912,247	886,329	899,344	913,772	914,396
11	East South Central.....	377,870	369,306	374,350	378,295	378,519
12	West South Central.....	297,743	285,366	286,532	289,231	291,210
13	Mountain.....	102,492	91,886	90,781	92,906	97,170
14	Pacific.....	471,246	408,990	415,523	445,489	471,592
NEW ENGLAND:						
15	Maine.....	70,159	63,951	66,357	68,119	69,926
16	New Hampshire.....	65,511	65,288	65,611	65,078	64,962
17	Vermont.....	27,421	27,337	28,001	27,937	27,533
18	Massachusetts.....	557,494	542,830	557,922	564,376	559,753
19	Rhode Island.....	126,068	125,404	127,450	128,230	128,659
20	Connecticut.....	251,861	246,805	250,234	254,409	255,400
MIDDLE ATLANTIC:						
21	New York.....	1,105,966	1,066,743	1,095,065	1,117,542	1,113,582
22	New Jersey.....	442,328	422,605	427,066	434,371	438,966
23	Pennsylvania.....	1,014,046	877,114	901,782	1,004,756	1,011,803
EAST NORTH CENTRAL:						
24	Ohio.....	741,143	723,067	746,203	753,905	765,789
25	Indiana.....	314,698	296,749	305,424	316,351	318,875
26	Illinois.....	691,555	654,929	669,575	680,093	681,903
27	Michigan.....	530,035	532,170	558,594	572,647	579,419
28	Wisconsin.....	264,745	255,781	262,681	265,049	265,954
WEST NORTH CENTRAL:						
29	Minnesota.....	103,414	99,884	101,291	102,020	101,698
30	Iowa.....	81,678	77,193	78,239	78,006	79,223
31	Missouri.....	202,879	190,950	196,682	200,382	202,248
32	North Dakota.....	4,024	3,659	3,577	3,677	3,765
33	South Dakota.....	6,535	6,703	6,548	6,389	6,275
34	Nebraska.....	28,212	26,274	26,072	26,326	27,297
35	Kansas.....	47,373	45,599	46,019	45,760	47,029
SOUTH ATLANTIC:						
36	Delaware.....	23,552	21,806	21,577	22,166	22,368
37	Maryland.....	131,099	121,063	124,627	126,879	129,147
38	District of Columbia.....	9,752	9,609	9,621	9,677	9,858
39	Virginia.....	120,273	113,319	116,209	118,446	120,986
40	West Virginia.....	85,326	83,313	84,539	85,721	86,202
41	North Carolina.....	209,826	206,624	208,711	211,452	212,637
42	South Carolina.....	108,777	108,624	109,245	111,568	107,449
43	Georgia.....	153,774	157,822	159,728	162,585	161,519
44	Florida.....	64,866	64,149	64,787	65,278	64,230
EAST SOUTH CENTRAL:						
45	Kentucky.....	77,825	75,414	77,444	78,475	78,059
46	Tennessee.....	128,400	123,741	125,838	127,033	127,376
47	Alabama.....	119,559	118,291	119,441	121,044	120,611
48	Mississippi.....	52,086	51,857	51,627	51,743	52,473
WEST SOUTH CENTRAL:						
49	Arkansas.....	44,205	42,317	41,947	42,117	42,567
50	Louisiana.....	87,345	84,858	84,202	86,028	86,055
51	Oklahoma.....	31,695	30,109	29,886	30,199	30,379
52	Texas.....	134,498	128,082	130,497	130,887	132,209
MOUNTAIN:						
53	Montana.....	14,869	14,253	14,222	14,351	14,805
54	Idaho.....	15,648	12,792	12,233	12,702	14,388
55	Wyoming.....	6,258	5,997	5,820	5,804	5,957
56	Colorado.....	32,890	29,490	29,343	29,944	31,004
57	New Mexico.....	4,476	4,277	4,341	4,266	4,416
58	Arizona.....	10,550	10,090	9,983	10,437	10,850
59	Utah.....	15,601	12,809	12,671	13,210	13,563
60	Nevada.....	2,200	2,178	2,168	2,192	2,189
PACIFIC:						
61	Washington.....	114,830	98,865	99,844	112,066	115,513
62	Oregon.....	65,505	62,801	64,245	60,345	63,085
63	California.....	290,911	257,324	261,434	273,078	292,694

<sup>1</sup> The figures for 1919, 1914, and 1909 have been adjusted for comparison with those for subsequent years as follows: (1) For all 3 years, deduction of data for establishments reporting products valued at less pairing" industry.

1929, 1925, 1919, 1914, 1909, AND BY DIVISIONS AND STATES, 1929

figures and that of minimum employment by *italic figures*]

Number employed on 15th day of month or nearest representative day—Continued								Per cent mini- mum is of maxi- mum	
May	June	July	August	September	October	November	December		
8,897,938	8,912,024	8,955,949	9,093,922	9,188,768	9,085,854	8,680,712	8,341,036	90.8	1
8,259,878	8,229,843	8,255,101	8,404,848	8,611,876	8,673,870	8,621,886	8,531,873	93.7	2
8,622,710	8,767,554	9,020,427	9,247,834	9,406,847	9,379,238	9,457,990	9,565,119	89.6	3
7,008,057	6,959,527	6,878,061	6,879,534	6,945,736	6,865,971	6,597,015	6,500,897	91.5	4
6,314,849	6,375,039	6,344,246	6,514,503	6,756,335	6,854,660	6,864,423	6,848,222	88.6	5
1,105,380	1,101,407	1,100,369	1,111,766	1,125,835	1,125,863	1,084,349	1,045,630	92.9	6
2,662,953	2,556,346	2,563,820	2,609,097	2,645,233	2,653,376	2,574,998	2,479,964	93.2	7
2,624,478	2,612,858	2,617,113	2,613,606	2,629,574	2,558,718	2,374,264	2,270,345	86.3	8
471,027	478,787	483,967	494,964	500,011	488,190	472,682	461,024	90.0	9
905,199	907,507	906,299	927,553	945,539	934,763	914,193	892,079	93.7	10
372,730	376,185	380,404	387,475	390,273	385,927	375,580	365,403	93.6	11
289,919	292,223	296,062	308,052	314,766	315,085	305,242	298,232	90.6	12
100,349	103,705	107,439	109,030	109,894	115,771	109,463	101,450	78.4	13
465,903	483,006	500,476	531,319	527,643	508,161	469,941	426,909	77.0	14
69,990	71,617	72,087	74,263	77,318	74,725	67,485	66,070	82.7	15
65,192	66,086	65,998	65,898	66,980	67,371	64,520	63,148	93.7	16
27,656	27,886	27,131	27,279	27,716	27,502	26,962	26,115	93.3	17
559,745	555,594	555,522	563,848	573,432	573,440	552,395	531,071	92.6	18
127,218	125,246	123,917	128,168	126,197	139,362	125,831	120,134	92.9	19
255,579	254,979	255,714	255,310	254,192	253,463	247,156	239,092	93.5	20
1,099,151	1,088,193	1,087,809	1,118,659	1,149,530	1,153,205	1,116,434	1,065,681	92.4	21
442,640	443,866	446,606	456,082	462,403	462,814	444,851	424,766	91.3	22
1,021,162	1,024,287	1,029,405	1,034,356	1,033,300	1,037,367	1,013,713	989,517	94.2	23
771,684	766,768	762,402	755,491	758,748	740,542	690,832	658,285	85.3	24
322,256	324,373	322,986	328,728	334,493	326,907	299,224	283,010	84.6	25
685,323	697,124	699,081	712,511	723,779	724,572	698,293	665,477	89.7	26
578,002	557,805	551,891	548,816	537,917	496,468	429,897	416,796	71.9	27
267,213	266,788	280,738	271,060	268,637	270,229	256,018	246,777	87.9	28
102,695	104,063	105,254	107,533	108,046	104,659	103,926	99,901	92.4	29
80,345	81,776	83,384	86,240	90,624	84,149	81,047	79,965	85.1	30
201,765	204,218	206,579	211,869	212,526	210,323	201,391	195,615	89.8	31
3,993	4,177	4,361	4,294	4,311	4,275	4,222	3,977	82.0	32
6,294	6,547	6,651	6,611	6,482	6,531	6,589	6,800	92.3	33
27,772	28,905	28,903	29,358	29,373	30,246	29,079	28,939	86.2	34
48,163	49,101	48,835	49,059	48,649	48,007	46,428	45,927	92.9	35
23,073	23,475	23,757	26,041	27,819	25,704	22,487	22,051	78.4	36
128,673	130,504	132,696	141,203	147,868	137,708	128,550	124,270	81.9	37
9,868	9,852	9,737	9,713	9,741	9,791	9,765	9,796	97.4	38
119,516	120,406	121,512	124,946	127,905	125,426	120,465	114,147	88.6	39
86,143	86,861	85,593	86,774	86,694	86,323	84,023	81,726	94.1	40
209,695	208,061	206,009	208,797	211,828	213,259	212,063	208,756	96.6	41
107,978	108,460	107,532	108,601	109,387	109,643	109,694	107,143	90.0	42
156,882	157,622	157,138	158,753	159,692	160,022	158,132	155,393	95.6	43
63,373	62,266	62,325	62,725	64,605	66,887	68,994	68,797	90.2	44
78,513	78,980	79,324	80,837	81,732	78,728	74,571	71,825	87.9	45
124,556	127,441	129,616	133,373	134,885	133,075	129,401	124,462	91.7	46
117,862	118,206	119,818	120,526	120,144	120,926	119,611	118,733	97.4	47
51,799	51,558	52,146	52,739	53,512	53,198	51,997	50,583	94.2	48
42,238	43,370	45,112	49,321	50,490	46,779	43,276	40,826	81.1	49
85,271	84,966	85,084	88,341	88,902	93,300	91,606	89,527	90.2	50
30,794	31,964	32,467	33,560	33,854	33,547	31,538	30,043	88.3	51
131,616	131,923	133,999	137,830	141,520	141,459	138,822	135,736	90.5	52
14,908	15,012	14,950	15,457	14,744	15,983	15,569	14,174	88.7	53
16,120	17,145	17,275	17,543	17,260	18,376	17,493	14,451	66.6	54
6,050	6,231	6,473	6,406	6,427	7,000	6,837	6,094	82.9	55
31,783	32,674	33,227	33,923	34,081	37,533	36,109	35,569	78.2	56
4,596	4,691	4,601	4,637	4,648	4,604	4,370	4,265	90.9	57
10,802	10,941	10,941	10,635	10,790	10,662	10,382	10,087	91.2	58
13,890	14,805	17,768	18,280	19,706	19,341	16,486	14,683	64.3	59
2,200	2,206	2,204	2,209	2,238	2,272	2,217	2,137	93.6	60
119,615	119,985	119,329	123,359	124,392	125,520	116,402	102,770	78.8	61
65,502	71,020	72,880	72,011	75,057	72,854	66,378	60,382	70.3	62
280,786	292,001	308,767	335,949	328,194	309,787	287,161	263,757	76.6	63

and therefore differ slightly from the corresponding figures as originally published. The adjustments than \$5,000; (2) for 1919 and 1914, deduction of data for establishments classified in the "Automobile re-

TABLE 14.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY VALUE OF

[In cases where the item for a certain group can not be given separately without disclosing data for individual the column in which the item has been omitted, and the item for the group with which it has been con in the item for the group in which the establishment properly belongs, and therefore the totals differ

	INDUSTRY	VALUE OF PRODUCTS \$5,000 TO \$19,999			VALUE OF PRODUCTS \$20,000 TO \$99,999		
		Number of estab- lish- ments	Wage earners	Value of prod- ucts (thou- sands of dollars)	Number of estab- lish- ments	Wage earners	Value of products (thou- sands of dollars)
1	All industries.....	69,423	202,958	771,417	75,225	693,155	3,587,697
	<i>Industries reporting 5,000 or more wage earners</i>						
2	Agricultural implements.....	76	252	887	87	905	4,408
3	Aircraft and parts.....	21	61	274	44	730	2,268
4	Aluminum manufactures.....	23	71	286	49	496	2,576
5	Ammunition and related products.....	1	(x)	(x)	3	42	159
6	Asbestos products, other than steam packing or pipe and boiler covering.....	6	12	55	20	139	928
7	Awnings, tents, sails, and canvas covers.....	476	1,215	5,657	421	2,769	18,620
8	Bags, other than paper, not made in textile mills.....	22	66	220	55	526	2,605
9	Bags, paper, exclusive of those made in paper mills.....	5	24	54	15	187	906
10	Baskets and rattan and willow ware, not includ- ing furniture.....	70	330	715	139	3,082	6,989
11	Beverages.....	2,727	4,344	30,337	2,019	10,324	85,238
12	Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	9	29	136	16	143	871
13	Bookbinding and blank-book making.....	468	1,510	5,152	446	5,668	20,030
14	Boot and shoe cut stock, not made in boot and shoe factories.....	39	111	429	68	677	3,564
15	Boot and shoe findings, not made in boot and shoe factories.....	72	225	913	149	1,660	7,528
16	Boots and shoes, other than rubber.....	110	428	1,238	273	4,258	14,299
17	Boots and shoes, rubber.....				2	(x)	(x)
18	Boxes, paper, not elsewhere classified.....	105	528	1,352	523	8,700	27,930
19	Boxes, wooden, except cigar boxes.....	162	643	1,906	287	3,750	14,925
20	Bread and other bakery products.....	10,458	19,896	111,722	8,165	49,525	351,133
21	Brushes, other than rubber.....	113	310	1,273	110	979	4,874
22	Butter.....	271	177	3,494	1,534	2,776	89,984
23	Buttons.....	73	355	775	105	2,248	4,995
24	Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	54	262	622	128	1,985	6,579
25	Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	747	3,006	8,547	1,109	12,796	55,501
26	Car and general construction and repairs, electric- railroad repair shops.....	126	673	1,483	191	3,848	9,299
27	Car and general construction and repairs, steam- railroad repair shops.....	205	897	2,280	428	8,496	23,136
28	Carpets and rugs, wool, other than rag.....	1	(x)	(x)	8	114	439
29	Carriages and sleds, children's.....	10	34	128	21	358	1,231
30	Cars, electric and steam railroad, not built in rail- road repair shops.....	6	40	64	28	482	1,621
31	Cash registers and adding, calculating, and card- tabulating machines.....	12	27	142	10	91	506
32	Caskets, coffins, burial cases, and other mortici- ans' goods.....	64	192	763	149	1,443	8,027
33	Cast-iron pipe.....	1	(x)	(x)	1	(x)	(x)
34	Cement.....	3	16	36	5	60	288
35	Cereal preparations.....	26	43	359	32	126	1,515
36	Chemicals, not elsewhere classified.....	39	82	497	100	693	5,500
37	Chocolate and cocoa products, not including con- fectionery.....				2	(x)	(x)
38	Cigars and cigarettes.....	939	2,707	9,134	368	6,165	16,843
39	Clay products (other than pottery) and nonclay refractories.....	371	2,200	4,269	614	13,561	32,615
40	Clocks, clock movements, time-recording devices, and time stamps.....	10	56	184	16	179	747
41	Clothing (except work clothing, men's, youths', and boys', not elsewhere classified.....	869	5,989	9,485	1,338	22,296	74,467
42	Clothing, women's, not elsewhere classified.....	1,083	7,995	14,881	3,657	52,618	175,491
43	Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	61	463	747	162	3,431	9,261

PRODUCTS, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929

establishments, it has been combined with that for another group. In such cases an "x" is shown in solidated is printed in *italics*. In the totals for all industries the data for each establishment are included from the sums of the items in the respective columns]

VALUE OF PRODUCTS \$100,000 TO \$499,999			VALUE OF PRODUCTS \$500,000 TO \$999,999			VALUE OF PRODUCTS \$1,000,000 TO \$4,999,999			VALUE OF PRODUCTS \$5,000,000 AND OVER			
Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	
44, 153	1, 672, 983	10, 023, 772	10, 395	1, 121, 547	7, 294, 861	9, 909	2, 705, 774	19, 963, 218	1, 854	2, 442, 326	28, 793, 898	1
75	3, 210	17, 163	13	1, 592	9, 011	25	9, 011	66, 884	17	26, 693	179, 475	2
29	1, 431	6, 344	16	2, 240	11, 217	21	<i>10, 248</i>	<i>51, 050</i>	1	(x)	(x)	3
38	1, 333	8, 363	13	1, 464	9, 127	18	(x)	(x)	9	<i>17, 816</i>	<i>133, 105</i>	4
7	321	<i>2, 469</i>	1	(x)	(x)	6	2, 377	14, 551	3	4, 483	26, 604	5
17	717	5, 096	9	745	5, 451	15	<i>6, 470</i>	<i>44, 633</i>	2	(x)	(x)	6
95	2, 200	17, 094	7	978	7, 881	1	(x)	(x)				7
52	1, 358	11, 612	19	1, 218	13, 510	51	7, 703	122, 056	3	957	20, 172	8
35	1, 200	10, 444	19	1, 690	13, 775	21	3, 869	39, 442				9
61	5, 229	13, 143	3	712	2, 004							10
347	7, 273	70, 148	36	2, 412	25, 213	24	<i>3, 928</i>	<i>50, 388</i>	1	(x)	(x)	11
42	1, 591	11, 100	22	2, 191	14, 835	24	7, 226	47, 283	4	4, 995	28, 168	12
156	8, 452	32, 367	22	3, 106	15, 553	16	6, 018	29, 681				13
56	1, 545	14, 608	28	1, 090	18, 859	14	2, 516	34, 810	5	3, 560	61, 178	14
144	5, 954	31, 102	7	663	4, 828	10	1, 874	14, 254				15
483	31, 268	127, 494	215	35, 487	151, 152	238	98, 059	473, 578	22	36, 140	198, 162	16
3	<i>539</i>	<i>1, 790, 189</i>	1	(x)	(x)	8	7, 293	25, 099, 396	8	75, 648	043	17
480	24, 129	102, 536	87	9, 982	60, 142	53	<i>12, 315</i>	<i>102, 293</i>	1	(x)	(x)	18
286	10, 130	66, 743	43	6, 234	29, 491	14	3, 797	21, 961				19
1, 618	46, 726	338, 504	317	28, 934	221, 270	218	<i>55, 780</i>	<i>503, 132</i>	9	(x)	(x)	20
59	2, 057	12, 603	8	574	4, 840	13	3, 341	21, 961				21
1, 387	7, 272	276, 256	11	3, 775	146, 983	122	<i>5, 097</i>	<i>228, 701</i>	3	(x)	(x)	22
50	3, 642	11, 728	11	2, 173	8, 129	3	616	3, 751				23
127	5, 706	27, 691	22	1, 809	15, 639	17	3, 760	30, 317				24
827	29, 836	178, 960	173	16, 775	118, 117	132	29, 330	255, 203	9	7, 123	134, 013	25
97	7, 745	20, 607	18	4, 381	12, 918	11	6, 028	20, 342	3	6, 800	20, 832	26
661	58, 388	170, 594	237	56, 912	168, 351	293	176, 967	573, 060	27	67, 021	247, 015	27
18	971	4, 744	11	1, 511	7, 923	20	7, 804	49, 621	9	22, 221	114, 188	28
33	1, 673	7, 789	8	1, 305	5, 157	7	3, 732	14, 513				29
45	2, 578	11, 473	14	1, 749	10, 274	37	13, 709	82, 528	17	21, 457	222, 260	30
10	<i>1, 261</i>	<i>4, 668</i>	2	(x)	(x)	10	(x)	(x)	2	<i>15, 161</i>	<i>104, 686</i>	31
160	5, 451	35, 590	24	2, 344	15, 454	17	3, 603	28, 449				32
34	<i>3, 465</i>	<i>9, 926</i>	13	2, 939	9, 059	21	<i>13, 329</i>	<i>61, 276</i>	2	(x)	(x)	33
17	1, 100	5, 946	40	3, 997	30, 263	106	<i>28, 195</i>	<i>230, 977</i>	3	(x)	(x)	34
27	354	7, 186	12	276	8, 309	17	1, 183	33, 542	7	4, 506	124, 312	35
185	4, 006	46, 852	81	5, 198	59, 240	110	20, 464	248, 537	36	31, 756	377, 422	36
22	<i>378</i>	<i>6, 994</i>	16	594	11, 866	15	1, 853	31, 107	4	3, 424	69, 574	37
193	16, 949	47, 012	39	9, 443	28, 426	74	37, 128	156, 992	23	32, 771	808, 499	38
657	48, 271	149, 465	72	14, 257	46, 332	35	14, 957	62, 253				39
14	624	3, 415	6	622	4, 036	8	(x)	(x)	2	8, 920	33, 784	40
1, 107	38, 884	246, 972	226	20, 406	157, 609	134	38, 800	266, 934	17	23, 493	145, 638	41
2, 443	70, 087	579, 942	581	32, 267	394, 944	314	24, 439	517, 392	4	94	26, 930	42
211	14, 884	49, 501	49	8, 740	33, 671	28	10, 683	45, 269				43

TABLE 14.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY VALUE OF PRODUCTS,

[See note at head

	INDUSTRY	VALUE OF PRODUCTS \$5,000 TO \$19,999			VALUE OF PRODUCTS \$20,000 TO \$99,999		
		Number of establishments	Wage earners	Value of products (thousands of dollars)	Number of establishments	Wage earners	Value of products (thousands of dollars)
<i>Industries reporting 5,000 or more wage earners—Continued</i>							
1	Coffee and spice, roasting and grinding.....	111	86	1,303	318	708	17,335
2	Coke, not including gas-house coke.....	5	49	54	30	253	1,238
3	Concrete products.....	1,423	3,279	15,087	826	6,597	35,516
4	Condensed and evaporated milk.....	56	52	713	157	413	8,534
5	Confectionery.....	728	1,789	8,154	709	6,231	32,114
6	Cooperage.....	220	504	2,498	226	1,536	10,476
7	Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	750	1,987	9,320	949	7,334	44,076
8	Cordage and twine.....	6	31	85	25	344	1,432
9	Corn sirup, corn sugar, corn oil, and starch.....	15	70	433	5	21	416
10	Corsets and allied garments.....	31	79	366	70	913	3,670
11	Cotton goods.....	27	132	344	90	1,370	4,882
12	Cotton small wares.....	23	100	251	69	849	3,681
13	Cutlery (not including silver and plated cutlery) and edge tools.....	54	193	662	91	1,369	4,791
14	Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.....	40	133	410	67	557	3,205
15	Doors, shutters, and window sash and frames, metal.....	14	47	214	51	409	2,874
16	Druggists' preparations.....	115	229	1,335	173	907	8,471
17	Dyeing and finishing textiles.....	75	308	908	207	2,539	11,189
18	Electrical machinery, apparatus, and supplies.....	264	990	3,384	496	4,472	25,398
19	Electroplating.....	242	720	2,759	234	2,594	10,017
20	Embroideries.....	416	1,637	4,387	355	3,514	14,142
21	Engines, turbines, tractors, and water wheels.....	17	70	228	45	536	2,330
22	Engraving, steel and copperplate, and plate printing.....	159	523	1,959	220	2,380	9,785
23	Envelopes.....	14	51	174	50	609	2,628
24	Explosives.....	5	7	69	29	89	1,271
25	Fancy and miscellaneous articles, not elsewhere classified.....	227	816	2,580	387	4,256	18,506
26	Feeds, prepared, for animals and fowls.....	111	131	1,246	245	689	12,596
27	Felt goods, wool, hair, or jute.....	2	(x)	(x)	6	84	379
28	Fertilizers.....	32	127	433	194	1,227	11,130
29	Firearms.....	3	56	204	2	(x)	(x)
30	Flavoring extracts and flavoring sirups.....	212	238	2,386	251	790	11,047
31	Flour and other grain-mill products.....	1,818	1,270	19,410	1,316	3,050	60,481
32	Food preparations, not elsewhere classified.....	310	571	3,408	311	1,656	14,783
33	Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	16	45	184	48	520	2,636
34	Foundry and machine-shop products, not elsewhere classified.....	1,921	6,123	32,451	3,086	31,241	152,238
35	Fur goods.....	613	962	6,972	1,460	5,002	72,524
36	Furnishing goods, men's, not elsewhere classified.....	98	582	1,064	195	4,445	11,012
37	Furniture, including store and office fixtures.....	704	1,896	8,181	1,285	13,802	77,383
38	Furs, dressed.....	37	129	409	104	1,059	5,041
39	Gas and electric fixtures; lamps, lanterns, and reflectors.....	113	289	1,290	246	1,959	11,738
40	Gas machines, gas meters, and water and other liquid meters.....	9	29	119	21	223	1,119
41	Gas, manufactured, illuminating and heating.....	50	122	631	337	2,430	18,043
42	Glass.....	6	34	76	23	500	1,438
43	Glass products (except mirrors) made from purchased glass.....	166	473	1,916	206	1,732	8,293
44	Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.....	13	66	135	49	853	2,676
45	Gloves and mittens, leather.....	51	209	602	100	1,181	5,104
46	Grease and tallow, not including lubricating greases.....	81	206	889	105	679	5,348
47	Handkerchiefs.....	11	99	135	43	827	2,101
48	Hardware not elsewhere classified.....	77	267	1,011	170	1,690	8,547
49	Hats and caps, except felt and straw, men's.....	182	412	2,000	303	2,422	14,297
50	Hats, fur-felt.....	19	43	189	34	270	1,650
51	House-furnishing goods, not elsewhere classified.....	248	584	2,796	391	2,894	18,704
52	Ice cream.....	1,100	1,156	12,561	1,399	5,156	64,856
53	Ice, manufactured.....	1,712	5,516	20,344	1,876	14,104	84,820
54	Instruments, professional and scientific.....	66	200	778	119	1,152	5,408
55	Iron and steel: Blast furnaces.....						
56	Iron and steel: Steel works and rolling mills.....	1	(x)	(x)	20	298	1,789
	Jewelry.....	456	1,029	4,962	681	5,208	32,227



MANUFACTURES

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FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

of this table]

VALUE OF PRODUCTS \$100,000 TO \$499,999			VALUE OF PRODUCTS \$500,000 TO \$999,999			VALUE OF PRODUCTS \$1,000,000 TO \$4,999,999			VALUE OF PRODUCTS \$5,000,000 AND OVER		
Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)
322	2,281	77,283	79	1,564	56,619	88	3,762	186,375	10	652	85,430
32	937	8,004	9	955	6,665	46	6,491	120,657	31	11,867	279,730
173	4,976	29,953	14	1,652	12,345	2	(X)	(X)			
175	1,718	42,766	93	2,343	66,283	53	2,539	90,314	1	(X)	(X)
410	17,076	92,533	99	11,971	71,393	67	18,848	124,359	8	7,586	64,717
112	3,979	26,193	23	3,020	17,194	5	1,352	8,481			
399	10,763	84,031	44	3,849	29,969	16	2,875	30,942	3	1,785	24,146
49	2,744	13,349	22	3,214	16,348	17	(X)	(X)	4	8,156	60,241
1	(X)	(X)				4	591	9,823	10	6,048	165,312
66	2,935	15,631	21	2,879	15,788	25	6,858	41,347			
390	34,261	118,089	309	64,822	217,897	424	247,481	884,860	41	70,850	298,106
72	3,745	16,335	23	3,738	16,711	15	6,849	28,191			
72	5,183	16,702	15	3,268	10,532	5	4,978	46,972	2	(X)	(X)
45	1,611	11,626	12	1,200	8,519	8	1,949	18,487			
55	2,191	13,290	10	1,072	7,426	16	5,888	48,366	2	(X)	(X)
97	1,916	21,593	27	1,826	18,203	12	1,860	22,867	5	3,950	52,309
254	13,846	63,356	92	12,673	65,358	91	33,166	177,743	13	16,795	147,267
522	21,162	121,961	180	20,283	131,760	259	81,393	606,637	81	200,422	1,411,776
56	2,614	10,952	2	(X)	(X)						
42	1,471	6,758									
57	2,667	13,254	25	3,060	18,842	29	11,507	71,208	26	43,308	351,355
65	3,061	14,147	6	749	3,701	5	3,417	17,370	1	(X)	(X)
68	3,021	16,372	24	2,718	16,693	15	3,968	25,419			
31	819	7,820	7	457	5,674	22	4,242	57,705	1	(X)	(X)
167	7,766	35,974	27	3,616	18,556	6	2,268	9,775			
227	2,071	51,646	63	1,431	45,423	91	4,200	178,067	13	1,701	113,774
19	607	5,018	13	1,231	9,638	13	3,558	30,431	1	(X)	(X)
258	5,896	65,362	106	6,639	73,007	48	7,037	82,579			
7	690	1,830	3	825	1,874	6	5,267	18,062			
130	1,350	27,443	22	730	16,035	23	1,933	73,175	4	(X)	(X)
504	3,919	113,326	152	2,759	108,650	199	9,179	419,947	33	6,851	338,455
176	2,900	39,387	33	1,463	23,311	28	3,175	60,383	4	8,851	30,589
74	2,567	17,789	36	3,950	26,301	40	10,518	81,465	4	3,282	27,873
2,393	103,370	554,071	576	70,650	402,665	565	164,285	1,127,306	64	78,772	522,731
709	7,118	141,165	63	1,872	41,738	10	798	15,194			
228	9,099	56,052	47	5,276	33,258	30	7,186	49,578			
1,312	65,307	309,520	314	46,184	217,958	153	50,797	261,638	10	15,413	73,436
90	2,537	19,222	14	533	9,639	3	859	5,927			
167	6,890	44,125	33	4,133	22,538	22	7,910	49,021	3	2,399	16,254
20	823	4,897	10	852	7,503	12	4,174	26,986			
230	5,471	52,144	12	3,350	36,191	67	11,628	140,231	19	20,064	265,412
87	8,955	27,285	63	12,615	46,766	77	36,429	173,539	7	8,994	54,715
51	1,934	10,291	5	477	3,140	3	1,413	9,633			
48	3,366	10,863	9	1,938	6,525	6	3,056	9,683			
90	4,836	19,847	12	1,767	8,259	4	1,210	5,310			
84	2,147	20,663	20	1,350	14,298	6	1,093	20,410	1	(X)	(X)
32	1,558	7,447	12	1,680	9,602	7	1,870	10,269			
145	8,008	34,854	42	6,808	28,349	45	19,565	83,315	6	15,968	73,402
87	2,619	16,675	3	373	2,929	1	(X)	(X)			
65	2,762	17,782	16	1,700	11,403	21	(X)	(X)	4	11,764	70,981
275	7,731	58,669	37	2,667	24,975	12	1,918	23,458	1	(X)	(X)
535	7,953	108,953	71	3,175	46,544	43	4,959	95,500	2	(X)	(X)
608	11,474	90,766	11	841	8,371	3	249	6,651			
54	2,828	14,144	9	948	6,016	16	11,748	63,400	2	(X)	(X)
3	78	766	10	671	7,286	44	5,454	128,064	48	18,787	635,310
85	6,274	26,209	65	9,392	46,573	165	69,005	437,697	150	309,605	2,854,120
334	11,562	70,837	40	4,060	28,715	25	6,054	40,646			

TABLE 14.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY VALUE OF PRODUCTS,

[See note at head

INDUSTRY	VALUE OF PRODUCTS \$5,000 TO \$19,999			VALUE OF PRODUCTS \$20,000 TO \$99,999		
	Number of estab- lish- ments	Wage earners	Value of prod- ucts (thou- sands of dollars)	Number of estab- lish- ments	Wage earners	Value of products (thou- sands of dollars)
<i>Industries reporting 5,000 or more wage earners—</i>						
<i>Continued</i>						
1 Knit goods.....	200	894	2,297	532	10,139	29,206
2 Lace goods.....	1	(x)	(x)	11	163	607
3 Leather goods, not elsewhere classified.....	136	321	1,471	174	1,734	8,397
4 Leather: Tanned, curried, and finished.....	18	60	213	80	1,062	4,449
5 Lime.....	43	275	513	99	1,732	5,210
6 Linoleum.....						
7 Lithographing.....	36	68	349	112	1,158	6,507
8 Locomotives, not made in railroad repair shops.....	1	(x)	(x)			
9 Lumber and timber products, not elsewhere classified.....	8,567	41,943	73,665	2,457	43,846	105,816
10 Macaroni, spaghetti, vermicelli, and noodles.....	121	158	1,392	131	692	6,261
11 Machine-tool accessories and small metal-work- ing tools, not elsewhere classified.....	152	498	1,845	320	3,720	15,625
12 Machine tools.....	13	49	189	58	681	3,077
13 Marble, granite, slate, and other stone products.....	539	1,600	8,434	874	8,745	42,504
14 Mattresses and bed springs, not elsewhere classi- fied.....	305	695	3,517	416	2,714	20,108
15 Meat packing, wholesale.....	64	59	825	244	724	13,753
16 Millinery.....	167	501	1,895	547	5,024	29,423
17 Models and patterns, not including paper pat- terns.....	402	1,114	4,570	342	3,389	14,645
18 Motion pictures, not including projection in theaters.....	27	71	301	47	206	2,327
19 Motor-vehicle bodies and motor-vehicle parts.....	239	613	2,732	406	4,026	19,345
20 Motor vehicles, not including motorcycles.....	8	11	110	46	397	2,849
21 Musical instruments: Pianos.....	8	30	93	16	247	837
22 Needles, pins, hooks and eyes, and snap fasteners.....	5	32	63	11	176	498
23 Nonferrous-metal alloys and products, not in- cluding aluminum products.....	227	506	2,739	478	3,729	23,507
24 Oil, cake, and meal, cottonseed.....	3	6	40	48	356	3,085
25 Optical goods.....	27	51	272	43	468	2,098
26 Paints and varnishes.....	108	200	1,386	326	1,252	17,717
27 Paper.....	9	39	111	46	617	2,906
28 Paper goods, not elsewhere classified.....	72	246	865	116	799	5,740
29 Patent or proprietary medicines and compounds.....	551	860	5,877	554	2,209	25,490
30 Peanuts, walnuts, and other nuts, processed or shelled.....	16	108	197	32	347	1,740
31 Pencils, lead (including mechanical).....	5	31	58	10	182	452
32 Perfumes, cosmetics, and other toilet preparations.....	288	495	3,144	313	1,545	14,114
33 Petroleum refining.....	12	20	140	16	72	864
34 Phonographs.....	4	12	49	14	112	779
35 Photo-engraving, not done in printing establish- ments.....	103	287	1,341	325	3,153	17,408
36 Photographic apparatus and materials.....	32	87	336	38	329	1,829
37 Planing-mill products (including general mill- work), not made in planing mills connected with sawmills.....	1,423	3,595	16,612	2,019	17,362	100,862
38 Plated ware.....	8	44	107	22	254	1,229
39 Plumbers' supplies, not including pipe or vitreous- china sanitary ware.....	17	61	200	78	763	4,135
40 Pocketbooks, purses, and cardcases.....	36	116	353	103	1,070	5,411
41 Pottery, including porcelain ware.....	60	236	620	76	1,573	4,342
42 Poultry killing, dressing, and packing, wholesale.....	3	4	41	129	463	7,450
43 Printing and publishing, book and job.....	6,005	12,124	64,771	4,774	35,171	209,018
44 Printing and publishing, newspaper and periodical.....	6,365	13,691	70,375	3,451	17,801	166,818
45 Pulp (wood and other fiber).....	2	(x)	(x)	15	167	741
46 Pumps (hand and power) and pumping equip- ment.....	62	160	887	83	674	4,412
47 Rayon and allied products.....				1	(x)	(x)
48 Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	30	85	390	60	476	3,093
49 Refrigerators, mechanical.....	6	16	76	9	416	2,251
50 Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	12	22	163	18	79	869
51 Rubber goods other than tires, inner tubes, and boots and shoes.....	64	170	755	115	1,256	6,458
52 Rubber tires and inner tubes.....	2	(x)	(x)	11	69	547
53 Salt.....	3	29	47	9	119	513

FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

of this table]

VALUE OF PRODUCTS \$100,000 TO \$499,999			VALUE OF PRODUCTS \$500,000 TO \$999,999			VALUE OF PRODUCTS \$1,000,000 TO \$4,999,999			VALUE OF PRODUCTS \$5,000,000 AND OVER		
Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)
694	43,994	168,461	251	39,805	177,500	194	80,426	353,378	17	33,230	168,874
13	1,036	4,148	9	1,491	6,264	8	4,164	18,220	---	---	---
67	2,139	13,667	11	1,230	7,700	4	611	4,717	---	---	---
180	5,305	37,878	80	6,405	56,963	131	27,476	285,289	12	9,624	96,549
79	4,411	17,397	13	1,588	8,926	3	548	3,770	---	---	---
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167	6,472	41,177	32	3,177	21,428	29	1,750	13,822	3	3,794	43,428
3	48	420	3	318	2,199	5	8,104	51,554	---	---	---
1,250	104,702	289,321	341	73,858	242,868	292	1,216	7,506	4	9,463	73,733
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78	1,874	16,506	16	1,314	11,243	7	1,034	11,672	---	---	---
193	8,108	39,647	28	3,168	19,174	27	(x)	(x)	2	11,188	68,120
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103	4,946	25,713	42	5,167	30,469	58	24,503	135,269	6	12,045	49,857
416	16,652	83,343	35	4,132	23,199	16	6,688	34,634	1	(x)	(x)
189	5,017	36,835	31	3,011	20,809	8	5,756	43,016	2	(x)	(x)
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413	3,857	105,111	183	4,913	128,797	245	19,861	556,501	128	93,091	2,629,667
515	17,750	109,869	50	5,995	35,334	14	2,936	19,173	---	---	---
56	1,720	8,773	4	555	2,633	---	---	---	---	---	---
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22	388	5,254	14	435	9,657	25	3,538	59,102	7	6,146	107,462
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269	11,385	62,474	63	8,178	46,966	98	35,193	214,495	79	161,937	1,191,919
44	1,123	10,946	19	1,201	13,444	40	8,549	92,539	87	214,835	3,602,905
29	1,640	6,765	16	2,448	11,664	12	5,605	23,143	---	---	---
16	1,391	3,856	6	766	2,806	7	3,877	14,807	---	---	---
332	9,826	73,530	59	4,861	40,070	93	19,690	202,800	36	40,571	567,068
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294	5,962	85,056	138	5,122	95,279	70	4,379	114,916	---	---	---
34	1,687	7,935	6	1,059	3,791	5	6,436	26,467	2	(x)	(x)
374	5,150	87,607	121	4,998	85,595	122	12,274	268,948	14	5,337	117,728
183	7,933	53,989	144	13,144	104,273	272	57,325	559,613	31	24,262	246,294
162	4,598	39,142	40	2,633	28,502	42	7,128	75,473	4	4,823	32,925
284	3,825	62,208	70	2,146	48,043	56	4,885	123,463	7	2,509	53,827
95	2,941	23,985	19	2,089	13,210	7	2,448	10,477	---	---	---
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15	1,090	3,696	3	313	1,976	2	4,117	21,592	3	(x)	(x)
151	2,983	33,433	26	1,240	19,046	31	4,110	68,307	6	2,736	55,397
52	704	15,465	52	978	36,932	160	12,240	400,105	98	66,582	2,186,160
24	1,153	5,741	7	807	5,472	8	12,352	34,809	2	(x)	(x)
209	6,668	41,626	9	1,076	6,629	8	1,169	10,379	---	---	---
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27	890	6,258	10	957	7,103	6	(x)	(x)	2	10,704	87,308
1,219	40,693	252,138	127	13,887	87,066	61	14,597	96,905	---	---	---
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45	2,663	10,975	9	1,398	6,004	10	(x)	(x)	2	6,369	37,116
97	5,346	24,318	38	5,240	25,622	22	9,751	47,665	3	6,799	27,734
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123	4,758	29,267	17	1,771	11,675	10	2,715	21,621	1	(x)	(x)
115	10,910	30,615	36	8,960	24,492	25	13,750	50,559	1	(x)	(x)
299	4,596	77,055	41	1,434	25,185	13	1,282	20,431	---	---	---
1,605	47,802	325,639	193	20,365	132,277	131	27,036	236,037	4	8,151	38,924
1,190	22,928	260,524	253	13,704	175,883	213	30,739	435,999	52	30,797	628,701
57	2,111	16,334	41	3,574	29,470	78	14,228	146,693	5	4,659	45,641
98	3,279	22,467	44	4,302	32,337	31	10,481	73,959	4	4,210	29,947
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10	2,499	3,084	3	1,147	2,272	5	(x)	(x)	10	55,460	144,190
67	2,411	15,960	8	2,067	12,310	12	4,745	28,731	1	(x)	(x)
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6	(x)	(x)	4	305	3,072	4	768	7,448	5	15,378	148,719
19	323	4,975	15	673	11,434	37	4,680	86,064	1	(x)	(x)
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127	6,280	31,500	43	6,787	32,416	55	17,515	112,567	8	8,218	61,051
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24	964	6,143	6	638	3,993	20	6,091	46,921	28	75,501	712,574
20	930	5,142	12	1,180	7,984	14	3,200	24,183	---	---	---

TABLE 14.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY VALUE OF PRODUCTS,

[See note at head

INDUSTRY	VALUE OF PRODUCTS \$5,000 TO \$19,999			VALUE OF PRODUCTS \$20,000 TO \$99,999		
	Number of estab- lish- ments	Wage earn- ers	Value of prod- ucts (thou- sands of dollars)	Number of estab- lish- ments	Wage earn- ers	Value of products (thou- sands of dollars)
<i>Industries reporting 5,000 or more wage earners—</i>						
<i>Continued</i>						
1 Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.	157	94	1,865	256	807	12,590
2 Screw-machine products and wood screws.	29	92	365	102	962	4,996
3 Sewing machines and attachments.	12	26	131	4	49	390
4 Ship and boat building, steel and wooden, including repair work.	172	655	1,963	222	2,914	10,772
5 Shirts.	133	1,673	1,610	330	11,225	16,377
6 Signs and advertising novelties.	533	1,326	5,676	459	3,830	20,631
7 Silk and rayon manufactures.	201	1,117	2,300	432	10,888	22,896
8 Silversmithing and silverware.	12	25	151	32	241	1,475
9 Smelting and refining, copper.						
10 Smelting and refining, zinc.						
11 Soap.	68	135	827	103	416	5,335
12 Sporting and athletic goods, not including fire-arms or ammunition.	68	212	742	80	1,017	3,909
13 Springs, steel, except wire, not made in plants operated in connection with rolling mills.	15	50	198	34	326	2,264
14 Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.	82	307	1,128	207	2,452	10,937
15 Stationery goods, not elsewhere classified.	34	96	448	64	591	3,497
16 Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.	32	52	315	71	473	3,420
17 Steam fittings and steam and hot-water heating apparatus.	21	63	232	51	331	2,567
18 Stereotyping and electrotyping, not done in printing establishments.	23	50	270	104	1,119	6,066
19 Stoves and ranges (other than electric) and warm-air furnaces.	93	314	1,426	162	1,603	8,425
20 Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.	281	743	3,325	524	4,261	26,550
21 Sugar, beet.						
22 Sugar refining, cane.						
23 Surgical and orthopedic appliances, including artificial limbs.	182	435	2,019	105	773	4,520
24 Textile machinery and parts.	80	289	1,017	157	1,705	7,525
25 Tin cans and other tinware, not elsewhere classified.	24	67	265	34	367	1,950
26 Tobacco: Chewing and smoking, and snuff.	58	115	657	47	325	2,348
27 Tools, not including edge tools, machine tools, files, or saws.	195	588	2,144	172	1,576	8,027
28 Toys (not including children's wheel goods or sleds), games, and playground equipment.	108	338	1,209	190	2,355	9,794
29 Trimmings (not made in textile mills) and stamped art goods for embroidering.	253	878	2,819	308	3,197	13,423
30 Trunks, suitcases, and bags.	117	273	1,321	202	1,638	9,634
31 Turpentine and rosin.	523	9,025	6,669	621	24,728	22,908
32 Typewriters and parts.	1	(x)	(x)	3	182	200
33 Wall plaster, wall board, insulating board, and floor composition.	57	136	774	91	611	4,738
34 Washing machines, wringers, driers, and ironing machines, for household use.	10	41	152	13	121	611
35 Watches and watch movements.						
36 Wire, drawn from purchased bars or rods.				9	133	540
37 Wirework, not elsewhere classified.	146	435	1,632	208	1,955	9,933
38 Wood preserving.	6	12	56	25	171	1,409
39 Wood turned and shaped and other wooden goods, not elsewhere classified.	317	1,256	3,419	397	5,493	18,435
40 Woolen goods.	33	94	353	73	1,252	4,022
41 Worsted goods.	5	40	52	23	428	981
42 Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.				7	73	500

MANUFACTURES

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FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

of this table]

VALUE OF PRODUCTS \$100,000 TO \$499,999			VALUE OF PRODUCTS \$500,000 TO \$999,999			VALUE OF PRODUCTS \$1,000,000 TO \$4,999,999			VALUE OF PRODUCTS \$5,000,000 AND OVER			
Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	Number of estab- lishments	Wage earners	Value of products (thou- sands of dollars)	
219	2,749	48,151	35	1,163	24,654	14	1,034	20,986			1	
95	4,243	22,722	19	2,451	13,706	27	12,133	64,156	1	(x)	(x)	2
7	315	1,600	4	863	2,898	7	(x)	(x)	1	9,214	40,076	3
150	8,786	35,422	31	5,380	23,275	42	20,906	92,570	7	16,448	67,298	4
280	19,800	66,475	74	10,196	53,413	44	16,936	90,446	2	(x)	(x)	5
205	7,369	44,936	23	2,702	17,896	13	4,773	28,905	1	(x)	(x)	6
518	35,086	123,685	166	20,171	117,581	153	43,082	236,771	21	20,123	177,967	7
28	914	5,741	4	567	2,822	6	3,260	20,262	1	(x)	(x)	8
6	(x)	(x)	1	(x)	(x)	3	613	3,271	22	13,931	985,513	9
23	832	14,797	3	317	2,991	19	5,931	52,048	6	5,370	63,862	10
65	3,000	13,420	11	394	7,843	20	2,529	40,456	17	10,057	240,934	11
18	736	5,131	15	1,813	9,956	13	4,751	30,263	1	(x)	(x)	12
186	9,418	45,516	10	999	6,645	7	3,731	32,433	2	(x)	(x)	13
72	2,970	17,736	50	6,760	33,050	56	21,063	113,675	1	(x)	(x)	14
46	1,146	9,719	12	1,988	12,784	13	5,435	39,597	2	(x)	(x)	15
67	2,813	17,365	18	1,066	8,486	10	4,529	23,494	2	(x)	(x)	16
91	2,925	16,649	42	5,137	30,419	53	17,910	103,350	6	13,367	74,377	17
206	10,826	53,062	8	886	5,726	4	1,507	6,906				18
479	14,005	110,347	70	8,649	49,714	75	21,247	130,681	3	3,977	19,440	19
13	465	4,498	106	9,060	74,983	83	17,413	165,395	9	9,465	96,437	20
59	2,044	11,976	26	1,628	19,057	43	5,403	84,997	21			21
101	4,669	22,683	7	804	4,477	7	(x)	(x)	2	13,012	507,389	22
60	2,098	15,703	15	2,421	11,183	18	8,945	42,130	3	3,854	48,607	23
25	1,071	6,590	30	3,192	23,345	70	25,173	255,659	5	9,010	37,901	24
111	4,726	25,055	35	4,781	25,355	21	7,634	38,881	14	(x)	(x)	25
143	6,872	30,740	3	486	2,141	5	650	8,933	14	8,164	158,664	26
65	2,142	14,002	26	4,781	25,355	21	7,634	38,881				27
119	4,417	24,466	7	584	5,012	6	1,133	9,924				28
38	6,404	6,705	18	2,194	11,781	11	2,837	16,768				29
7	(x)	(x)	1	(x)	(x)	10	6,766	27,557	4	9,997	34,103	30
57	1,715	13,895	1	(x)	(x)	10	6,766	27,557	4	9,997	34,103	31
18	684	4,916	17	1,606	12,139	13	3,394	39,117	1	(x)	(x)	32
2	(x)	(x)	8	796	6,252	12	2,361	25,968	4	4,186	44,431	33
10	410	2,765	15	1,659	11,417	3	2,231	10,407	3	8,507	23,963	34
132	5,348	30,807	27	2,866	18,549	31	8,196	59,052	3	3,588	26,782	35
51	1,020	13,029	43	2,140	29,741	71	8,723	130,350	3	1,011	16,338	36
162	8,607	34,179	16	2,409	9,881	3	947	3,706				37
170	12,136	48,398	102	16,065	73,530	78	24,142	134,362	4	4,785	30,273	40
59	3,851	17,857	45	5,565	32,302	108	37,258	238,683	24	41,303	246,192	41
18	680	4,991	8	716	5,697	10	2,802	24,401	7	7,146	89,071	42

TABLE 15.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED

[In cases where the item for a certain group can not be given separately without disclosing data for individ-  
in the column in which the item has been omitted, and the item for the group with which it has been  
with those for the States; but in the total for the United States the data for each establishment are in  
in division items and of the State items in the respective columns]

DIVISION AND STATE	VALUE OF PRODUCTS \$5,000 TO \$19,999			VALUE OF PRODUCTS \$20,000 TO \$99,999			VALUE OF PRODUCTS \$100,000 TO \$499,999		
	Number of estab-lish-ments	Wage earners	Value of prod-ucts (thou-sands of dollars)	Number of estab-lish-ments	Wage earners	Value of prod-ucts (thou-sands of dollars)	Number of estab-lish-ments	Wage earners	Value of prod-ucts (thou-sands of dollars)
1 United States.....	69,423	202,958	771,417	75,225	693,155	3,587,697	44,153	1,672,983	10,023,772
GEOGRAPHIC DIVISIONS:									
2 New England.....	5,359	15,105	61,812	6,387	66,344	303,578	4,135	186,415	951,089
3 Middle Atlantic.....	17,525	47,980	201,337	25,060	233,661	1,179,896	15,188	518,687	3,445,294
4 E. N. Central.....	13,515	31,001	157,593	16,749	127,523	814,454	10,206	377,795	2,345,182
5 W. N. Central.....	6,608	15,844	72,317	6,022	45,298	290,504	3,669	108,849	814,340
6 South Atlantic.....	9,050	41,897	92,809	6,418	88,589	323,657	3,566	189,500	826,770
7 E. S. Central.....	4,640	18,863	44,975	2,790	34,001	129,991	1,577	86,007	361,301
8 W. S. Central.....	4,090	12,821	45,092	3,748	36,150	172,409	1,822	77,222	417,222
9 Mountain.....	1,760	4,045	19,367	1,535	11,367	69,350	712	23,581	157,438
10 Pacific.....	6,876	15,402	76,116	6,516	50,222	303,858	3,248	104,927	705,097
NEW ENGLAND:									
11 Maine.....	620	2,059	7,048	514	5,876	23,649	287	14,451	63,571
12 New Hampshire.....	390	1,275	4,349	336	4,526	16,525	215	11,836	52,880
13 Vermont.....	311	1,137	3,525	361	4,197	17,044	197	9,066	41,986
14 Massachusetts.....	2,753	7,013	32,117	3,508	33,921	167,827	2,337	99,058	536,124
15 Rhode Island.....	416	1,230	4,701	583	6,170	27,334	432	20,905	100,126
16 Connecticut.....	869	2,391	10,072	1,085	11,654	51,199	667	31,099	156,402
MIDDLE ATLANTIC:									
17 New York.....	10,109	27,260	116,726	16,166	132,847	757,264	9,516	265,970	2,148,758
18 New Jersey.....	2,347	6,541	27,377	3,050	33,243	142,616	1,897	75,597	429,888
19 Pennsylvania.....	5,099	14,179	57,234	5,844	67,571	280,015	3,775	177,120	866,648
E. N. CENTRAL:									
20 Ohio.....	3,418	8,526	39,223	4,026	35,906	221,756	2,692	107,697	626,476
21 Indiana.....	1,495	4,067	17,209	1,778	16,412	85,928	1,130	50,423	265,499
22 Illinois.....	4,516	10,094	52,695	5,477	42,361	259,075	3,519	120,615	803,376
23 Michigan.....	1,875	4,219	21,847	2,282	17,207	109,007	1,495	51,833	340,347
24 Wisconsin.....	2,211	4,065	26,618	3,186	15,637	138,688	1,370	47,222	309,483
W. N. CENTRAL:									
25 Minnesota.....	1,359	3,292	15,292	1,565	10,368	80,015	1,047	24,736	218,988
26 Iowa.....	1,155	2,732	13,160	1,177	8,983	57,107	751	20,265	167,574
27 Missouri.....	2,140	5,500	22,870	1,860	16,220	87,747	1,187	45,239	273,700
28 North Dakota.....	165	337	1,714	131	780	6,210	55	1,448	12,004
29 South Dakota.....	338	694	3,387	178	1,105	8,548	83	1,899	19,019
30 Nebraska.....	635	1,407	6,946	508	3,332	23,637	249	6,467	53,861
31 Kansas.....	816	1,882	8,948	603	4,510	27,441	297	8,795	69,194
SOUTH ATLANTIC:									
32 Delaware.....	159	522	1,899	165	1,929	7,678	72	3,310	15,943
33 Maryland.....	1,101	3,992	12,343	1,131	12,910	54,631	702	29,861	156,830
34 Dist. Columbia.....	198	379	2,344	207	1,420	9,676	109	2,779	22,169
35 Virginia.....	1,563	5,937	15,992	976	10,774	44,961	486	22,847	108,825
36 West Virginia.....	596	1,810	6,255	418	4,401	19,386	290	15,233	67,379
37 North Carolina.....	1,678	6,556	15,529	944	11,102	74,961	752	46,859	185,798
38 South Carolina.....	782	4,486	7,435	425	6,210	19,392	260	15,519	60,178
39 Georgia.....	1,994	12,619	19,850	1,274	24,809	56,236	630	35,520	144,445
40 Florida.....	949	5,896	11,161	878	15,034	36,735	295	17,572	65,203
E. S. CENTRAL:									
41 Kentucky.....	980	2,900	10,146	720	7,367	34,121	372	17,187	87,667
42 Tennessee.....	1,201	4,004	12,078	812	8,595	37,321	506	27,856	118,872
43 Alabama.....	1,429	7,216	13,610	754	11,314	34,348	432	25,660	96,939
44 Mississippi.....	1,030	4,743	9,141	504	6,725	24,202	267	15,304	57,823
W. S. CENTRAL:									
45 Arkansas.....	877	3,519	8,922	518	6,478	22,551	243	13,810	56,515
46 Louisiana.....	667	2,161	7,232	665	7,728	32,311	417	23,913	97,078
47 Oklahoma.....	606	1,592	6,822	650	4,955	29,013	261	7,161	57,798
48 Texas.....	1,940	5,849	22,115	1,915	16,989	88,534	901	32,338	205,872
MOUNTAIN:									
49 Montana.....	240	590	2,577	205	1,468	9,295	91	2,521	18,612
50 Idaho.....	240	479	2,584	193	1,262	9,065	92	2,511	20,778
51 Wyoming.....	101	208	1,069	90	615	4,068	36	1,285	8,309
52 Colorado.....	644	1,516	7,241	553	4,184	24,484	249	8,263	56,437
53 New Mexico.....	128	387	1,340	84	682	3,523	29	1,526	6,734
54 Arizona.....	117	272	1,334	146	1,134	6,553	56	1,828	12,635
55 Utah.....	239	500	2,721	224	1,759	10,608	132	4,852	28,660
56 Nevada.....	51	93	500	40	263	1,755	27	795	5,273
PACIFIC:									
57 Washington.....	1,347	3,310	14,916	1,268	10,492	58,683	716	25,968	155,735
58 Oregon.....	1,070	2,450	10,674	824	7,339	39,343	393	13,775	84,258
59 California.....	4,459	9,642	50,526	4,424	32,391	205,832	2,139	65,154	465,104

BY VALUE OF PRODUCTS, BY DIVISIONS AND STATES: 1929

ual establishments, it has been combined with that for another group. In such cases an "x" is shown consolidated is printed in *italics*. The figures for the geographic divisions have been adjusted in harmony cluded in the item for the proper group, and therefore these totals differ from the sums of the geographic

VALUE OF PRODUCTS \$500,000 TO \$999,999			VALUE OF PRODUCTS \$1,000,000 TO \$4,999,999			VALUE OF PRODUCTS \$5,000,000 AND OVER			
Number of establishments	Wage earners	Value of products (thousands of dollars)	Number of establishments	Wage earners	Value of products (thousands of dollars)	Number of establishments	Wage earners	Value of products (thousands of dollars)	
10,395	1,121,547	7,294,861	9,909	2,705,774	19,963,218	1,854	2,442,326	28,783,898	1
1,069	139,201	757,900	1,134	413,167	2,335,219	188	278,282	1,988,617	2
3,366	312,467	2,351,193	3,036	731,539	6,085,604	555	718,006	8,096,251	3
2,617	279,245	1,843,757	2,676	716,252	5,556,649	693	1,010,360	10,945,655	4
683	58,968	477,590	668	141,623	1,335,011	137	103,533	2,387,621	5
901	140,784	636,463	779	300,491	1,531,154	116	150,986	1,858,423	6
421	59,750	294,638	390	126,684	758,408	42	52,565	425,131	7
458	48,538	319,381	401	77,133	774,314	57	45,879	1,073,633	8
142	12,377	96,644	134	32,898	294,672	36	18,224	602,440	9
733	70,008	516,012	691	171,280	1,365,050	90	59,407	1,344,548	10
63	8,834	44,928	74	27,938	158,224	10	11,001	94,332	11
64	10,398	44,452	61	20,729	122,678	9	16,747	91,651	12
35	4,164	23,116	22	8,857	57,852	1	(x)	(x)	13
587	70,611	415,173	586	202,873	1,154,565	101	144,018	1,086,357	14
107	15,355	77,325	142	53,669	294,383	21	28,739	162,499	15
213	29,839	152,906	249	99,101	547,518	46	77,777	553,738	16
1,935	146,821	1,341,299	1,454	284,561	2,802,342	215	248,507	2,812,167	17
462	52,384	331,801	523	145,246	1,088,251	109	129,317	1,917,224	18
969	113,262	678,093	1,059	301,732	2,195,010	232	340,182	3,366,861	19
703	80,163	499,804	823	221,018	1,776,604	193	287,833	2,874,040	20
330	39,202	230,271	287	85,436	585,331	71	119,153	1,355,656	21
811	79,280	570,468	833	204,619	1,741,906	177	234,586	2,854,571	22
465	46,918	327,133	442	126,395	876,495	127	283,403	2,981,889	23
308	33,682	216,080	291	78,784	586,313	65	85,325	879,499	24
151	12,205	102,296	166	34,289	339,999	27	18,524	416,624	25
131	10,590	90,646	82	19,380	154,646	21	19,728	415,079	26
264	26,781	183,751	261	67,558	517,546	53	41,581	831,541	27
8	693	5,613	13	766	29,776	1	(x)	(x)	28
8	669	6,176	5	388	8,069	3	1,782	52,698	29
43	2,657	29,274	47	6,997	99,426	9	7,352	271,025	30
83	5,373	59,829	94	12,247	185,548	23	14,566	400,654	31
27	2,980	19,487	32	11,513	69,401	5	3,298	35,233	32
130	14,036	90,639	136	36,655	264,308	31	33,645	540,331	33
16	1,661	12,041	14	2,311	25,497	3	1,202	17,246	34
107	14,667	77,369	105	31,455	179,135	20	34,593	319,628	35
85	13,526	59,215	84	28,819	194,522	15	21,537	166,256	36
244	41,828	171,326	161	69,104	300,426	18	34,377	563,884	37
84	17,611	59,069	102	56,953	199,581	6	7,998	40,236	38
152	23,425	106,456	114	51,505	243,979	15	10,896	151,488	39
56	11,050	40,860	31	12,176	54,306	3	3,440	24,121	40
79	9,269	55,275	82	23,258	167,577	13	17,844	147,854	41
170	23,137	118,269	151	48,142	295,575	15	16,666	148,393	42
118	20,187	82,893	101	37,127	203,704	14	18,055	128,884	43
54	7,157	38,201	56	18,157	91,551				44
52	6,435	36,703	39	13,963	86,212	2	(x)	(x)	45
115	16,615	79,369	109	24,354	200,830	16	12,574	268,217	46
60	3,812	42,528	68	8,716	142,622	13	5,459	177,122	47
231	21,676	160,781	185	30,100	344,650	26	27,846	628,294	48
26	2,590	17,064	21	4,186	36,889	6	3,514	186,656	49
17	1,480	12,175	18	9,918	51,750	2	(x)	(x)	50
7	924	5,197	10	2,066	21,566	4	1,160	56,140	51
43	3,269	29,038	50	8,367	91,550	9	7,261	97,321	52
6	664	4,441	3	1,217	5,659				53
11	1,080	7,523	9	2,622	18,173	9	3,614	153,784	54
30	2,340	21,205	21	3,475	42,896	5	2,675	108,539	55
2	(x)	(x)	2	1,049	26,189	1	(x)	(x)	56
159	17,562	114,149	169	47,886	303,642	13	9,582	148,436	57
89	10,693	62,932	81	29,377	168,379	6	1,871	46,133	58
485	41,733	338,932	441	94,617	893,029	71	47,954	1,149,928	59

TABLE 16.—SIZE OF ESTABLISHMENTS BY NUMBER OF WAGE EARNERS,

The average number of wage earners employed during the year in each establishment is classified as a have worked a larger or a smaller number of hours. In cases where the item for a certain group can not that for another group. In such cases an "x" is shown in the column in which the item has been omitted, industries the data for each establishment are included in the item for the group in which the establish

INDUSTRY	TOTAL		ESTABLISHMENTS EMPLOYING—					
			No wage earners		1 to 5 wage earners, inclusive		6 to 20 wage earners, inclusive	
			Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Estab-lish-ments	Wage earners	Estab-lish-ments
<b>All industries:</b>								
1 1929.....	210,959	8,838,743	7,426	95,787	279,734	53,524	595,708	
2 1919.....	290,105	9,096,372	37,934	141,742	311,578	56,208	631,290	
<i>Industries reporting 5,000 or more wage earners: 1929</i>								
3 Agricultural implements.....	293	41,663	-----	100	322	68	784	
4 Aircraft and parts.....	132	14,710	-----	27	81	33	358	
5 Aluminum manufactures.....	150	21,210	-----	35	105	48	561	
6 Ammunition and related products.....	21	7,223	-----	1	(x)	2	18	
7 Asbestos products, other than steam packing or pipe and boiler covering.	67	8,092	-----	16	50	13	141	
8 Awnings, tents, sails, and canvas covers	1,002	7,162	12	664	1,951	268	2,561	
9 Bags, other than paper, not made in textile mills.	202	11,828	2	45	135	53	654	
10 Bags, paper, exclusive of those made in paper mills.	95	6,970	-----	3	10	24	285	
11 Baskets and rattan and willow ware, not including furniture.	273	9,353	3	36	105	108	1,092	
12 Beverages.....	5,154	28,281	187	3,901	9,120	873	8,284	
13 Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.	117	16,175	1	14	51	23	310	
14 Bookbinding and blank-book making..	1,108	24,754	13	475	1,447	384	4,215	
15 Boot and shoe cut stock, not made in boot and shoe factories.	210	9,499	-----	63	179	83	1,005	
16 Boot and shoe findings, not made in boot and shoe factories.	382	10,376	1	112	358	124	1,480	
17 Boots and shoes, other than rubber.....	1,341	205,640	1	135	447	200	2,471	
18 Boots and shoes, rubber.....	22	25,659	-----	1	(x)	1	(x)	
19 Boxes, paper, not elsewhere classified..	1,249	55,654	1	96	304	443	5,637	
20 Boxes, wooden, except cigar boxes.....	792	30,554	4	208	763	224	2,680	
21 Bread and other bakery products.....	20,785	200,841	662	14,206	35,333	4,315	41,924	
22 Brushes, other than rubber.....	303	7,261	7	137	409	95	1,064	
23 Butter.....	3,527	19,097	184	2,543	5,984	629	6,441	
24 Buttons.....	242	9,034	1	67	251	72	881	
25 Canning and preserving: Fish, crabs, shrimps, oysters, and clams.	348	13,612	4	86	295	105	1,269	
26 Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.	2,997	98,866	18	932	3,297	1,032	12,139	
27 Car and general construction and repairs, electric-railroad repair shops.	446	29,475	-----	82	300	156	1,933	
28 Car and general construction and repairs, steam-railroad repair shops.	1,851	368,681	1	155	518	314	3,861	
29 Carpets and rugs, wool, other than rag.	67	32,623	-----	2	(x)	6	11	
30 Carriages and sleds, children's.....	79	7,102	-----	11	32	14	157	
31 Cars, electric and steam railroad, not built in railroad repair shops.	147	40,015	-----	6	23	22	292	
32 Cash registers and adding, calculating, and card-tabulating machines.	46	16,840	-----	14	34	10	110	
33 Caskets, coffins, burial cases, and other morticians' goods.	414	13,033	3	97	281	146	1,648	
34 Cast-iron pipe.....	72	19,741	-----	-----	-----	1	(x)	
35 Cement.....	174	33,368	-----	3	11	4	34	
36 Cereal preparations.....	121	6,488	-----	55	126	33	350	
37 Chemicals, not elsewhere classified..	551	62,199	7	106	303	138	1,717	
38 Chocolate and cocoa products, not including confectionery.	59	6,249	-----	-----	-----	22	282	
39 Cigars and cigarettes.....	1,636	105,308	41	839	2,241	334	3,592	
40 Clay products (other than pottery) and nonclay refractories.	1,749	93,336	-----	222	795	479	5,740	
41 Clocks, clock movements, time-recording devices, and time stamps.	56	10,401	-----	14	54	15	170	



MANUFACTURES

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FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929

total according to the customary hours of labor in that establishment, even though a few employees may be given separately without disclosing data for individual establishments, it has been combined with and the item for the group with which it has been consolidated is printed in *italics*. In the totals for all ment properly belongs, and therefore the totals differ from the sums of the items in the respective columns]

ESTABLISHMENTS EMPLOYING—continued												
21 to 50 wage earners, inclusive		51 to 100 wage earners, inclusive		101 to 250 wage earners, inclusive		251 to 500 wage earners, inclusive		501 to 1,000 wage earners, inclusive		Over 1,000 wage earners		
Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	
25,022	814,465	12,467	891,871	10,195	1,589,040	3,840	1,331,145	1,722	1,178,991	996	2,159,989	1
25,379	829,301	12,405	888,344	10,088	1,581,763	3,599	1,250,875	1,749	1,205,627	1,021	2,397,596	2
48	1,476	22	1,554	21	3,325	14	4,765	10	7,128	10	22,309	3
22	779	16	1,334	19	3,012	9	3,599	3	2,169	3	3,578	4
21	717	13	936	11	1,701	11	3,684	4	2,794	7	10,712	5
7	338	1	(x)	2	(x)	3	1,113	2	(x)	3	5,854	6
7	216	11	747	11	1,914	5	1,902	3	3,122	1	(x)	7
45	1,361	7	469	6	820							8
32	1,025	28	1,990	36	5,809	5	2,215	1	(x)			9
26	956	21	1,548	17	2,706	4	1,465					10
68	2,166	37	2,508	19	3,482	2	(x)					11
127	3,883	42	2,836	21	3,098	3	1,060					12
21	715	21	1,601	22	3,576	7	2,345	5	3,497	3	4,080	13
130	4,274	64	4,497	29	4,676	9	3,254	4	2,391			14
30	933	20	1,355	9	1,684	1	(x)	2	(x)	2	4,343	15
89	2,927	39	2,724	15	2,878	2	(x)					16
239	8,097	244	17,803	287	45,828	145	50,619	73	48,978	17	31,397	17
		3	294	1	(x)			5	8,711	11	21,654	18
398	13,160	197	13,915	97	14,536	20	8,099	2	(x)			19
167	5,897	109	7,715	69	10,109	11	3,690					20
933	29,589	364	25,864	246	36,916	44	15,326	12	7,434	3	8,455	21
35	1,223	14	998	9	1,582	6	1,985					22
138	4,103	25	1,697	8	872							23
49	1,655	27	1,820	21	3,033	5	1,394					24
69	2,309	48	3,493	31	4,232	4	2,014	1	(x)			25
558	17,905	248	17,532	165	25,748	36	12,517	4	2,295	4	7,433	26
110	3,670	38	2,755	37	5,165	13	4,452	7	4,399	3	6,801	27
322	11,161	267	19,860	334	62,119	222	78,361	126	86,158	60	105,643	28
10	326	12	926	12	1,931	11	4,062	8	5,665	6	19,619	29
27	955	10	666	11	1,786	4	3,506	1	(x)	1	(x)	30
31	1,087	20	1,469	23	3,543	25	9,220	9	6,715	11	17,666	31
1	(x)	5	353	4	631	7	2,628	3	(x)	2	13,084	32
98	3,211	46	3,205	19	2,864	4	1,824	1	(x)			33
8	339	11	819	25	4,107	17	5,977	7	4,859	3	3,640	34
11	420	39	2,994	79	13,338	31	10,065	5	6,506	2	(x)	35
13	387	12	848	3	457			3	4,340	2	(x)	36
115	3,624	64	4,622	59	9,664	32	11,168	18	13,399	12	17,702	37
16	496	9	610	6	806	3	1,098	2	2,967	1	(x)	38
141	4,753	82	5,808	99	16,257	49	16,479	33	22,867	18	33,311	39
473	16,045	342	24,281	194	28,218	28	9,410	10	8,847	1	(x)	40
8	281	5	380	5	691	4	3,091	2	(x)	3	5,734	41

TABLE 16.—SIZE OF ESTABLISHMENTS BY NUMBER OF WAGE EARNERS, FOR

[See note at head

INDUSTRY	TOTAL		ESTABLISHMENTS EMPLOYING—				
			No wage earners	1 to 5 wage earners, inclusive		6 to 20 wage earners, inclusive	
	Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
<i>Industries reporting 5,000 or more wage earners—Continued</i>							
1 Clothing (except work clothing) men's, youths', and boys', not elsewhere classified.	3,691	149,868	140	1,515	7,799	830	9,223
2 Clothing, women's, not elsewhere classified.	8,082	187,500	155	1,731	9,291	3,763	45,605
3 Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts) men's.	511	38,201	6	32	245	126	1,309
4 Coffee and spice, roasting and grinding.	928	9,053	30	527	1,225	270	2,812
5 Coke, not including gas-house coke.	153	20,552	-----	9	28	33	343
6 Concrete products.	2,438	16,505	29	1,686	4,301	570	5,686
7 Condensed and evaporated milk.	535	7,065	14	241	593	152	1,746
8 Confectionery.	2,021	63,501	24	966	2,659	495	5,521
9 Cooperage.	586	10,691	4	327	888	140	1,527
10 Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	2,161	28,593	14	1,112	3,286	738	7,956
11 Cordage and twine.	123	14,489	-----	9	29	25	354
12 Corn sirup, corn sugar, corn oil, and starch.	35	6,730	-----	19	91	2	(x)
13 Corsets and allied garments.	213	13,664	-----	42	111	56	601
14 Cotton goods.	1,281	424,916	2	39	138	80	936
15 Cotton small wares.	202	15,281	1	30	104	61	767
16 Cutlery (not including silver- and plated cutlery) and edge tools.	239	14,091	1	62	206	64	748
17 Dairymen's supplies; creamery, cheese-factory and butter-factory equipment; poultrymen's and apiarists' supplies.	172	5,450	1	71	244	46	563
18 Doors, shutters, and window sash and frames, metal.	148	9,557	-----	37	131	40	447
19 Druggists' preparations.	429	10,688	22	205	568	123	1,256
20 Dyeing and finishing textiles.	732	79,327	-----	111	358	200	2,411
21 Electrical machinery, apparatus, and supplies.	1,802	328,722	5	418	1,496	486	5,710
22 Electroplating.	534	5,928	9	262	780	186	1,942
23 Embroideries.	813	6,622	11	583	2,028	168	2,103
24 Engines, turbines, tractors, and water-wheels.	199	61,148	-----	19	65	42	463
25 Engraving, steel and copperplate, and plate printing.	456	10,130	5	190	635	172	1,902
26 Envelopes.	171	10,367	-----	20	71	45	553
27 Explosives.	95	5,614	-----	38	89	7	65
28 Fancy and miscellaneous articles, not elsewhere classified.	814	18,722	5	314	1,067	281	3,246
29 Feeds, prepared, for animals and fowls.	750	10,223	11	392	893	222	2,484
30 Felt goods, wool, hair, or jute.	54	5,540	-----	3	9	10	130
31 Fertilizers.	638	20,926	-----	165	618	213	2,367
32 Firearms.	21	6,838	-----	1	(x)	3	33
33 Flavoring extracts and flavoring sirups.	642	5,041	41	429	906	120	1,276
34 Flour and other grain-mill products.	4,022	27,028	265	3,010	4,713	475	5,054
35 Food preparations, not elsewhere classified.	862	10,616	14	532	1,276	213	2,214
36 Forgings, iron and steel, not made in plants operated in connection with rolling mills.	218	20,882	1	26	87	53	690
37 Foundry and machine-shop products, not elsewhere classified.	8,605	454,441	71	2,634	8,546	2,572	29,199
38 Fur goods.	2,855	15,752	132	1,946	4,903	662	6,680
39 Furnishing goods, men's, not elsewhere classified.	598	26,588	16	152	582	157	1,977
40 Furniture, including store and office fixtures.	3,778	193,399	13	1,037	2,665	1,010	12,428
41 Furs, Gressed.	243	5,167	61	50	153	72	825
42 Gas and electric fixtures; lamps, lanterns, and reflectors.	614	23,580	6	205	606	189	2,096

INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

of this table]

ESTABLISHMENTS EMPLOYING—continued												
21 to 50 wage earners, inclusive		51 to 100 wage earners, inclusive		101 to 250 wage earners, inclusive		251 to 500 wage earners, inclusive		501 to 1,000 wage earners, inclusive		Over 1,000 wage earners		
Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	
621	20,304	286	20,459	198	30,028	62	21,366	23	14,419	16	26,270	1
1,660	52,462	537	37,353	204	30,769	28	9,701	4	2,319	-----	-----	2
140	4,816	103	7,648	71	11,236	28	9,491	4	3,456	1	(x)	3
71	2,312	19	1,287	11	1,417	-----	-----	-----	-----	-----	-----	4
23	651	27	1,875	39	6,376	15	5,344	5	5,935	2	(x)	5
119	3,540	26	1,757	8	1,221	-----	-----	-----	-----	-----	-----	6
108	3,327	18	1,399	2	(x)	-----	-----	-----	-----	-----	-----	7
251	8,026	138	10,151	108	16,924	24	8,250	11	7,007	4	4,963	8
61	1,862	31	2,242	19	2,815	3	1,357	1	(x)	-----	-----	9
199	6,102	67	4,688	24	3,207	4	1,330	3	2,024	-----	-----	10
22	814	23	1,682	29	4,370	11	3,621	2	3,619	2	(x)	11
-----	-----	1	(x)	3	591	4	1,338	5	4,710	1	(x)	12
46	1,501	25	1,790	32	5,072	9	2,857	3	1,732	-----	-----	13
101	3,643	176	13,401	366	61,830	264	94,216	165	113,988	88	136,764	14
42	1,390	29	2,060	24	3,986	11	3,972	3	3,002	1	(x)	15
44	1,441	28	1,948	28	4,020	8	2,605	3	4,023	1	(x)	16
25	805	17	1,099	9	1,487	2	1,252	1	(x)	-----	-----	17
32	1,075	13	934	17	2,658	6	2,056	3	2,256	-----	-----	18
41	1,335	21	1,519	12	2,261	1	(x)	3	3,749	1	(x)	19
135	4,575	86	6,150	126	19,295	41	14,351	24	16,185	9	16,002	20
267	8,994	184	13,269	224	34,789	109	38,834	53	36,928	56	188,702	21
60	1,920	15	1,266	2	(x)	-----	-----	-----	-----	-----	-----	22
40	1,058	10	833	1	(x)	-----	-----	-----	-----	-----	-----	23
37	1,172	30	2,057	22	3,394	17	6,599	16	10,456	16	36,942	24
59	1,803	18	1,408	7	1,154	4	3,228	-----	-----	1	(x)	25
48	1,578	28	2,155	25	3,748	4	2,262	1	(x)	-----	-----	26
18	619	16	1,131	13	2,129	1	(x)	2	1,581	-----	-----	27
131	4,093	44	3,109	32	4,491	7	2,716	-----	-----	-----	-----	28
79	2,522	32	2,213	14	2,111	-----	-----	-----	-----	-----	-----	29
9	273	15	1,081	10	1,474	6	2,573	1	(x)	-----	-----	30
129	4,470	95	6,558	31	4,649	3	2,264	2	(x)	-----	-----	31
3	99	2	(x)	4	815	3	1,022	2	(x)	3	4,869	32
34	1,076	11	826	7	957	-----	-----	-----	-----	-----	-----	33
178	5,588	56	3,966	32	4,690	4	3,017	2	(x)	-----	-----	34
61	2,023	27	1,782	9	1,382	6	1,939	-----	-----	-----	-----	35
49	1,644	25	1,849	44	6,933	14	4,812	6	4,867	-----	-----	36
1,460	47,804	847	59,882	651	100,000	236	81,716	101	67,778	33	59,516	37
102	3,018	10	647	3	504	-----	-----	-----	-----	-----	-----	38
129	4,107	69	4,965	62	9,327	10	3,482	3	2,148	-----	-----	39
745	24,752	471	34,172	382	59,211	88	20,636	24	16,180	8	14,355	40
36	1,086	22	1,602	5	1,501	1	(x)	1	(x)	-----	-----	41
112	3,543	54	3,605	28	4,292	14	5,185	6	4,253	-----	-----	42

TABLE 16.—SIZE OF ESTABLISHMENTS BY NUMBER OF WAGE EARNERS, FOR

[See note at head

INDUSTRY	TOTAL		ESTABLISHMENTS EMPLOYING—					
			No wage earners		1 to 5 wage earners, inclusive		6 to 20 wage earners, inclusive	
			Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Estab-lish-ments	Wage earners	Estab-lish-ments
<i>Industries reporting 5,000 or more wage earners—Continued</i>								
1	Gas machines, gas meters, and water and other liquid meters.	72	6, 101	-----	12	40	22	231
2	Gas, manufactured, illuminating and heating.	754	43, 065	-----	190	631	306	3, 368
3	Glass.....	263	67, 527	-----	7	20	15	222
4	Glass products (except mirrors) made from purchased glass.	431	6, 029	5	228	691	135	1, 323
5	Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.	125	9, 279	-----	13	42	36	472
6	Gloves and mittens, leather.....	257	9, 203	3	63	211	79	891
7	Grease and tallow, not including lubricating greases.	297	5, 475	3	134	402	99	1, 133
8	Handkerchiefs.....	105	6, 014	10	19	61	16	211
9	Hardware not elsewhere classified.	485	52, 306	1	118	254	131	1, 511
10	Hats and caps, except felt and straw, men's.	576	5, 826	36	244	671	232	2, 489
11	Hats, fur-felt.....	159	16, 539	2	32	101	31	365
12	House-furnishing goods, not elsewhere classified.	964	15, 794	38	384	1, 078	321	3, 440
13	Ice cream.....	3, 150	22, 369	180	2, 112	4, 620	634	6, 494
14	Ice, manufactured.....	4, 110	32, 184	4	2, 484	8, 072	1, 323	13, 571
15	Instruments, professional and scientific	276	16, 876	1	99	301	86	898
16	Iron and steel: Blast furnaces.....	105	24, 960	-----	-----	-----	1	(x)
17	Iron and steel: Steel works and rolling mills.	486	394, 574	-----	4	13	18	252
18	Jewelry.....	1, 536	27, 922	39	756	2, 017	448	4, 778
19	Knit goods.....	1, 888	208, 488	24	225	1, 204	427	4, 582
20	Lace goods.....	42	6, 851	2	2	(x)	7	87
21	Leather goods, not elsewhere classified.	392	6, 035	5	169	441	146	1, 613
22	Leather: Tanned, carried, and finished.	471	49, 932	-----	32	96	89	1, 082
23	Lime.....	237	8, 554	-----	33	164	85	1, 002
24	Linoleum.....	7	5, 544	-----	-----	-----	-----	-----
25	Lithographing.....	376	18, 979	5	59	173	112	1, 417
26	Locomotives, not made in railroad repair shops.	16	11, 045	-----	1	(x)	2	86
27	Lumber and timber products, not elsewhere classified.	12, 915	419, 084	9	8, 075	36, 998	2, 287	26, 698
28	Macaroni, spaghetti, vermicelli, and noodles.	353	5, 072	18	189	426	83	925
29	Machine-tool accessories and small metal-working tools, not elsewhere classified.	722	26, 682	5	177	574	281	3, 300
30	Machine tools.....	280	47, 391	-----	26	93	49	617
31	Marble, granite, slate, and other stone products.	1, 881	37, 817	22	833	3, 080	623	7, 266
32	Mattresses and bed springs, not elsewhere classified.	951	17, 187	9	505	1, 415	298	3, 307
33	Meat packing, wholesale.....	1, 277	122, 505	36	403	1, 100	341	3, 914
34	Millinery.....	1, 293	32, 206	5	305	961	544	6, 314
35	Models and patterns, not including paper patterns.	804	6, 778	12	444	1, 295	280	2, 872
36	Motion pictures, not including projection in theaters.	142	10, 784	33	41	134	26	272
37	Motor-vehicle bodies and motor-vehicle parts.	1, 154	221, 332	7	322	893	329	3, 672
38	Motor vehicles, not including motorcycles.	244	226, 116	1	24	79	45	527
39	Musical instruments: Pianos.....	81	9, 970	-----	8	29	15	172
40	Needles, pins, hooks and eyes, and snap fasteners.	43	6, 242	-----	8	27	4	41
41	Nonferrous-metal alloys and products, not including aluminum products.	1, 225	79, 183	9	440	1, 259	400	4, 509
42	Oil, cake, and meal, cottonseed.....	553	15, 825	-----	29	112	197	2, 756
43	Optical goods.....	117	9, 701	1	37	86	33	362

INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

of this table]

ESTABLISHMENTS EMPLOYING—continued												
21 to 50 wage earners, inclusive		51 to 100 wage earners, inclusive		101 to 250 wage earners, inclusive		251 to 500 wage earners, inclusive		501 to 1,000 wage earners, inclusive		Over 1,000 wage earners		
Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	
11	424	12	872	8	1,242	5	3,292	2	(x)			1
122	3,820	55	3,653	53	7,982	14	4,965	6	4,051	8	14,595	2
26	955	43	3,294	84	14,038	51	17,613	28	19,265	9	12,120	3
43	1,317	14	934	4	1,764			2	(x)			4
30	1,027	23	1,664	14	2,216	7	3,858	2	(x)			5
60	2,028	31	2,396	17	2,467	4	1,210					6
35	1,128	20	1,365	4	1,447	1	(x)	1	(x)			7
26	923	17	1,191	12	1,942	5	1,686					8
85	2,728	50	4,001	64	10,810	18	6,312	9	6,879	9	19,811	9
46	1,369	17	1,297	1	(x)							10
35	1,259	26	1,906	23	3,517	5	1,568	3	7,823	2	(x)	11
152	4,764	52	3,773	16	2,739	1	(x)					12
163	4,971	41	2,720	16	2,293	4	1,301					13
257	7,476	32	2,262	5	803							14
41	1,298	23	1,613	11	1,569	9	2,912	3	1,756	3	6,529	15
5	211	24	1,883	43	7,022	21	7,608	9	8,296	2	(x)	16
24	870	65	5,132	87	14,612	94	33,850	85	60,606	109	279,239	17
167	5,442	77	5,375	38	5,501	6	2,132	5	2,677			18
374	13,393	305	21,970	315	48,300	133	47,062	52	28,830	33	43,147	19
7	241	5	407	12	1,643	6	2,251	3	2,231			20
51	1,654	9	549	12	1,778							21
120	4,108	88	6,454	92	14,247	37	13,098	9	5,499	4	5,348	22
70	2,251	28	2,071	19	5,066	2	(x)					23
						2	(x)	4	5,544	1	(x)	24
103	3,396	51	3,588	31	4,537	14	5,868	1	(x)			25
1	(x)	2	165	5	1,392	1	(x)	1	(x)	3	9,462	26
1,093	36,138	507	37,023	548	87,585	276	94,838	97	63,841	23	35,963	27
36	1,109	17	1,197	10	1,415							28
156	5,011	52	3,766	34	5,123	12	4,170	4	4,738	1	(x)	29
64	2,136	42	3,064	50	7,731	23	8,212	21	14,232	5	11,306	30
255	8,117	87	6,188	49	7,266	10	5,900	1	(x)	1	(x)	31
85	2,740	33	2,417	16	3,217	2	(x)	2	4,091	1	(x)	32
205	6,918	102	7,517	84	14,031	47	15,845	30	20,449	29	52,731	33
289	9,287	101	6,989	41	6,017	8	2,638					34
57	1,565	8	587	3	459							35
9	328	9	671	13	1,874	5	1,661	3	2,356	3	3,488	36
194	6,212	75	5,641	83	13,579	49	17,526	39	28,466	56	145,343	37
33	1,081	20	1,303	25	4,069	17	6,120	31	23,297	48	189,640	38
15	494	14	961	20	3,291	3	840	5	4,183	1	(x)	39
5	164	10	694	8	1,115	5	1,556	2	2,645	1	(x)	40
173	5,684	84	5,726	55	8,483	33	11,800	15	9,314	16	32,408	41
265	8,331	54	3,507	8	1,119							42
21	703	9	632	11	2,891	2	(x)	1	(x)	2	5,527	43

TABLE 16.—SIZE OF ESTABLISHMENTS BY NUMBER OF WAGE EARNERS, FOR

[See note at head

INDUSTRY	TOTAL		ESTABLISHMENTS EMPLOYING—				
			No wage earners		1 to 5 wage earners, inclusive		6 to 20 wage earners, inclusive
	Establishments	Wage earners (average for the year)	Establishments	Establishments	Wage earners	Establishments	Wage earners
<i>Industries reporting 5,000 or more wage earners—Continued</i>							
1	1,063	29,211	3	425	1,159	339	3,842
2	685	103,350	10	31	57	770	
3	436	20,227	8	126	386	125	1,437
4	1,522	16,434	94	951	2,155	330	3,393
5	169	7,933	1	36	118	42	494
6	38	5,703	4	11	7	92	
7	815	13,109	47	480	1,161	173	1,773
8	390	80,596	3	9	111	83	1,125
9	59	14,416	1	28	14	173	
10	654	12,353	5	172	568	297	3,535
11	115	12,967	43	121	34	355	
12	4,849	90,134	29	2,072	6,095	1,677	18,826
13	96	10,728	10	41	21	254	
14	255	27,960	42	131	66	807	
15	290	10,430	3	59	199	105	1,256
16	313	35,409	1	44	139	61	407
17	485	7,769	2	129	378	225	2,677
18	12,712	150,649	814	7,381	18,720	3,131	32,683
19	11,524	129,660	2,582	6,159	17,388	1,815	18,423
20	198	24,729	5	17	23	295	
21	322	23,106	1	101	301	70	793
22	29	39,106	49	153	64	714	
23	188	9,784	49	153	64	714	
24	34	16,883	1	4	11	119	
25	102	6,027	1	27	64	17	201
26	412	40,226	4	95	250	96	1,131
27	91	83,263	6	17	12	131	
28	58	5,458	3	8	8	91	
29	681	5,897	54	358	773	204	2,203
30	273	19,881	1	52	168	95	1,125
31	39	10,467	3	13	35	7	68
32	624	55,089	188	631	176	2,038	
33	863	59,830	32	120	379	222	2,504
34	1,239	20,000	21	674	1,867	357	3,902
35	1,491	130,467	18	169	524	363	4,473
36	83	5,007	1	20	54	32	336
37	26	14,544	1	20	54	32	(x)
38	30	11,018	1	20	54	32	(x)
39	282	14,363	4	153	397	71	709
40	242	10,793	3	74	209	70	796
41	86	5,842	1	19	62	29	305

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INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

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ESTABLISHMENTS EMPLOYING—continued												
21 to 50 wage earners, inclusive		51 to 100 wage earners, inclusive		101 to 250 wage earners, inclusive		251 to 500 wage earners, inclusive		501 to 1,000 wage earners, inclusive		Over 1,000 wage earners		
Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	
162	5,363	62	4,527	58	8,435	12	5,885	1	(x)	1	(x)	1
142	4,992	152	11,308	219	35,602	76	26,853	24	16,789	5	6,975	2
93	3,003	42	3,018	26	3,797	13	4,195	1	(x)	2	4,331	3
81	2,655	41	2,771	19	2,792	5	2,668	1	(x)			4
58	1,848	22	1,582	7	1,022	1	(x)	1	2,869	1	(x)	5
8	297	10	727	3	459			6	4,117			6
66	2,003	25	1,821	14	2,047	7	2,362	3	1,942			7
75	2,506	69	4,766	57	9,232	30	11,016	21	14,431	16	37,409	8
13	427	9	735	7	877	5	12,176	1	(x)	1	(x)	9
139	4,457	28	1,893	13	1,900							10
18	638	7	453	6	664	3	1,061	2	(x)	2	9,675	11
703	22,804	222	15,353	117	17,222	26	8,422	3	1,412			12
25	864	12	788	18	2,765	7	2,823	1	(x)	2	3,193	13
44	1,466	36	2,628	45	6,759	12	4,497	6	3,748	4	7,924	14
69	2,352	30	2,193	20	2,819	3	1,611	1	(x)			15
53	1,897	53	3,981	62	10,413	28	9,146	10	9,136	1	(x)	16
115	3,346	9	608	4	760	1	(x)					17
907	28,639	264	18,189	155	23,146	44	13,823	13	7,983	3	7,466	18
538	17,092	216	15,095	144	21,900	43	15,143	20	13,411	7	11,208	19
40	1,377	44	2,986	68	10,909	14	4,971	2	(x)	2	4,174	20
66	2,254	32	2,369	32	4,772	6	2,206	12	10,411	2	(x)	21
1	(x)	5	558	2	(x)	7	2,095	3	2,003	11	33,750	22
27	893	23	1,584	18	2,842	4	1,502	2	2,096	1	(x)	23
4	161	3	190	4	1,024	1	(x)			5	15,378	24
12	417	22	1,615	22	3,790	1	(x)					25
65	2,172	51	3,778	54	7,780	30	10,721	11	7,116	6	7,278	26
12	420	11	819	11	1,963	14	5,195	9	6,429	16	68,289	27
14	484	15	1,097	14	2,288	4	1,490					28
48	1,515	14	983	3	423							29
49	1,666	28	2,007	31	4,846	9	2,883	5	3,283	3	3,903	30
2	(x)	2	290	4	722	4	1,304	2	(x)	2	8,108	31
113	3,745	51	3,594	47	7,192	22	7,216	19	13,014	8	17,659	32
177	6,432	148	10,719	118	18,464	35	12,030	9	9,212	2	(x)	33
102	3,324	55	3,911	21	8,033	7	3,963	1	(x)	1	(x)	34
329	11,048	268	19,564	235	36,799	81	26,497	18	15,878	10	15,684	35
14	437	7	535	4	706	3	2,239	1	(x)	1	(x)	36
		1	(x)	7	1,307	6	2,081	7	5,671	4	5,485	37
2	(x)	3	268	9	1,431	10	4,076	5	6,343	1	(x)	38
17	565	9	655	11	1,772	12	4,079	2	(x)	3	6,186	39
43	1,380	24	1,661	22	3,401	4	3,256	2	(x)			40
13	437	11	804	8	1,290	3	2,944	2	(x)			41

TABLE 16.—SIZE OF ESTABLISHMENTS BY NUMBER OF WAGE EARNERS, FOR

[See note at head

INDUSTRY	TOTAL		ESTABLISHMENTS EMPLOYING—				
			No wage earners	1 to 5 wage earners, inclusive		6 to 20 wage earners, inclusive	
	Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
<i>Industries reporting 5,000 or more wage earners—Continued</i>							
1 Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.	582	40,000	1	109	401	173	1,944
2 Stationery goods, not elsewhere classified.	203	11,078	2	56	173	54	671
3 Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.	171	7,266	2	72	195	54	670
4 Steam fittings and steam and hot water heating apparatus.	240	39,621	-----	47	153	50	571
5 Stereotyping and electrotyping, not done in printing establishments.	230	6,487	2	41	130	98	1,228
6 Stoves and ranges (other than electric) and warm-air furnaces.	609	46,616	4	158	561	128	1,559
7 Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.	1,482	54,947	4	454	1,360	521	6,009
8 Sugar, beet	82	7,496	-----	-----	-----	-----	-----
9 Sugar refining, cane	21	13,912	-----	-----	-----	-----	-----
10 Surgical and orthopedic appliances, including artificial limbs.	363	7,910	10	213	569	82	858
11 Textile machinery and parts	376	27,019	2	104	353	139	1,589
12 Tin cans and other tinware, not elsewhere classified.	232	31,497	-----	31	90	40	520
13 Tobacco: Chewing and smoking, and snuff.	152	10,811	6	80	193	25	287
14 Tools, not including edge tools, machine tools, files, or saws.	534	19,305	9	231	712	139	1,508
15 Toys (not including children's wheel goods or sleds), games and playground equipment.	476	16,660	8	125	367	171	1,983
16 Trimmings (not made in textile mills) and stamped art goods for embroidering.	639	7,934	10	297	1,393	250	2,067
17 Trunks, suitcases, and bags	467	11,359	6	185	506	151	1,691
18 Turpentine and rosin	1,183	40,157	-----	30	86	478	7,890
19 Typewriters and parts	26	16,945	-----	1	(x)	1	(x)
20 Wall plaster, wall board, insulating board and floor composition.	236	7,462	-----	114	306	57	670
21 Washing machines, wringers, driers, and ironing machines, for household use.	65	8,189	-----	12	39	13	151
22 Watches and watch movements	8	10,738	-----	-----	-----	-----	-----
23 Wire, drawn from purchased bars or rods.	81	22,467	-----	2	(x)	7	100
24 Wirework, not elsewhere classified	547	22,388	8	205	663	171	1,916
25 Wood preserving	199	13,077	-----	23	57	45	539
26 Wood turned and shaped and other wooden goods, not elsewhere classified.	894	18,712	5	350	1,261	298	3,498
27 Woolen goods	460	58,474	4	39	107	48	588
28 Worsteds goods	264	88,485	2	8	27	18	256
29 Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.	50	11,417	-----	1	(x)	9	185



INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

of this table]

ESTABLISHMENTS EMPLOYING—continued												
21 to 50 wage earners, inclusive		51 to 100 wage earners, inclusive		101 to 250 wage earners, inclusive		251 to 500 wage earners, inclusive		501 to 1,000 wage earners, inclusive		Over 1,000 wage earners		
Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	Estab- lish- ments	Wage earners	
126	4,209	65	4,533	67	10,689	29	10,217	11	8,007	1	(x)	1
40	1,305	23	1,620	20	2,751	2	(x)	6	4,558	-----	-----	2
21	686	8	557	6	947	4	1,585	4	2,626	-----	-----	3
29	1,055	28	2,121	48	7,623	25	8,494	6	4,577	7	15,027	4
66	2,055	15	1,030	6	2,044	1	(x)	1	(x)	-----	-----	5
87	2,983	95	6,916	94	15,011	35	12,185	6	7,401	2	(x)	6
270	8,671	121	8,542	78	12,032	25	8,652	5	3,490	4	6,191	7
21	761	31	2,293	30	4,442	-----	-----	-----	-----	-----	-----	8
-----	-----	-----	-----	3	655	4	1,773	11	7,904	3	3,580	9
29	873	12	855	12	1,746	3	3,009	1	(x)	1	(x)	10
58	1,902	31	2,172	21	3,445	10	3,716	5	3,429	6	10,413	11
36	1,227	29	2,098	58	9,777	27	9,528	9	8,257	2	(x)	12
10	321	10	678	7	1,185	9	3,044	3	5,103	2	(x)	13
71	2,370	33	2,385	39	6,241	7	2,391	5	3,698	-----	-----	14
90	3,042	37	2,563	38	6,148	6	2,557	1	(x)	-----	-----	15
56	1,689	19	1,288	6	1,497	-----	-----	1	(x)	-----	-----	16
73	2,285	27	1,981	20	3,171	5	1,725	-----	-----	-----	-----	17
518	17,334	123	8,630	30	4,618	3	1,599	1	(x)	-----	-----	18
5	168	4	316	3	694	2	(x)	5	4,561	5	11,266	19
30	1,008	13	891	16	2,140	5	2,447	1	(x)	-----	-----	20
11	354	12	847	10	2,099	2	(x)	4	4,699	1	(x)	21
-----	-----	2	250	1	(x)	-----	-----	1	(x)	4	10,488	22
9	308	15	1,124	21	3,223	15	5,455	9	5,857	3	6,400	23
71	2,388	42	3,117	33	4,879	11	3,534	5	5,891	1	(x)	24
47	1,702	44	3,358	34	5,533	6	1,838	-----	-----	-----	-----	25
154	4,762	56	3,807	26	3,691	5	1,693	-----	-----	-----	-----	26
73	2,566	98	7,301	134	21,295	54	17,792	7	4,682	3	4,143	27
32	1,191	31	2,497	81	13,513	53	15,630	23	18,488	16	36,883	28
11	348	10	723	8	1,883	5	2,280	4	6,068	2	(x)	29

TABLE 17.—SIZE OF ESTABLISHMENTS BY NUMBER OF

The average number of wage earners employed during the year in each establishment is classified as a not have worked a larger or a smaller number of hours. In cases where the item for a certain group can not for another group. In such cases an "x" is shown in the column in which the item has been omitted, geographic divisions have been adjusted in harmony with those for the States; but in the totals for the these totals differ from the sums of the geographic-division items and of the State items in the respective

DIVISION AND STATE	TOTAL		ESTABLISHMENTS EMPLOYING—				
	Establishments	Wage earners (average for the year)	No wage earners	1 to 5 wage earners, inclusive		6 to 20 wage earners, inclusive	
				Establishments	Wage earners	Establishments	Wage earners
<b>United States:</b>							
1 1929.....	210,959	8,838,743	7,426	95,767	279,734	53,524	595,708
2 1919 <sup>1</sup> .....	290,105	9,096,372	37,934	141,742	311,576	56,208	631,290
<b>GEOGRAPHIC DIVISIONS:</b>							
3 New England.....	18,272	1,098,514	499	6,808	19,707	4,826	53,749
4 Middle Atlantic.....	64,730	2,562,340	2,633	26,803	76,155	18,233	205,652
5 East North Central.....	46,396	2,542,176	2,093	23,100	51,788	11,142	123,652
6 West North Central.....	17,792	474,115	611	9,596	25,224	4,211	45,884
7 South Atlantic.....	20,860	912,247	413	10,111	39,907	4,692	53,146
8 East South Central.....	9,860	377,870	117	5,325	19,717	2,053	23,110
9 West South Central.....	10,576	297,743	187	5,347	16,952	2,719	29,668
10 Mountain.....	4,319	102,492	172	2,429	6,241	983	10,571
11 Pacific.....	18,154	471,246	701	9,248	24,043	4,665	50,276
<b>NEW ENGLAND:</b>							
12 Maine.....	1,568	70,159	19	700	2,170	404	4,289
13 New Hampshire.....	1,075	65,511	20	412	1,251	261	3,034
14 Vermont.....	927	27,421	11	308	1,308	266	3,157
15 Massachusetts.....	9,872	557,494	350	3,592	9,962	2,692	30,154
16 Rhode Island.....	1,701	126,068	30	563	1,720	437	4,815
17 Connecticut.....	3,129	251,861	69	1,143	3,296	766	8,300
<b>MIDDLE ATLANTIC:</b>							
18 New York.....	39,395	1,105,966	1,845	17,016	48,708	11,932	134,720
19 New Jersey.....	8,338	442,328	204	3,270	9,370	2,197	24,674
20 Pennsylvania.....	16,947	1,014,046	584	6,517	18,077	4,104	46,258
<b>EAST NORTH CENTRAL:</b>							
21 Ohio.....	11,855	741,143	336	4,729	13,066	3,031	33,408
22 Indiana.....	5,091	314,698	118	2,064	5,997	1,298	14,302
23 Illinois.....	15,333	691,555	772	6,544	17,240	3,913	43,787
24 Michigan.....	6,686	530,035	213	2,829	7,520	1,621	18,015
25 Wisconsin.....	7,431	264,745	654	3,934	7,935	1,279	14,140
<b>WEST NORTH CENTRAL:</b>							
26 Minnesota.....	4,315	103,414	154	2,435	6,251	954	10,300
27 Iowa.....	3,317	81,678	110	1,820	4,750	799	8,706
28 Missouri.....	5,765	202,879	198	2,720	7,610	1,459	16,167
29 North Dakota.....	373	4,024	24	239	566	81	843
30 South Dakota.....	615	6,535	20	438	1,001	116	1,268
31 Nebraska.....	1,491	28,212	66	875	2,258	345	3,521
32 Kansas.....	1,916	47,373	49	1,069	2,788	465	5,079
<b>SOUTH ATLANTIC:</b>							
33 Delaware.....	460	23,552	7	199	591	122	1,312
34 Maryland.....	3,231	131,099	89	1,375	4,176	881	9,887
35 District of Columbia.....	547	9,752	95	222	650	131	1,434
36 Virginia.....	3,287	120,273	58	1,795	6,043	761	8,237
37 West Virginia.....	1,488	85,326	32	695	2,105	307	3,387
38 North Carolina.....	3,797	209,826	35	1,912	7,071	714	8,306
39 South Carolina.....	1,659	108,777	10	835	4,134	335	3,976
40 Georgia.....	4,179	158,774	62	1,976	9,876	920	10,760
41 Florida.....	2,212	64,808	25	1,102	5,261	521	5,847
<b>EAST SOUTH CENTRAL:</b>							
42 Kentucky.....	2,246	77,825	44	1,221	3,568	489	5,433
43 Tennessee.....	2,855	128,400	41	1,454	4,721	585	6,360
44 Alabama.....	2,848	119,559	23	1,544	6,844	574	6,810
45 Mississippi.....	1,911	52,086	9	1,106	4,584	405	4,507
<b>WEST SOUTH CENTRAL:</b>							
46 Arkansas.....	1,731	44,205	24	977	3,693	365	4,007
47 Louisiana.....	1,989	87,345	35	815	2,620	512	5,854
48 Oklahoma.....	1,658	31,695	33	880	2,538	477	4,960
49 Texas.....	5,198	134,498	95	2,675	8,101	1,365	14,847
<b>MOUNTAIN:</b>							
50 Montana.....	589	14,869	22	336	867	138	1,413
51 Idaho.....	562	15,648	20	351	835	105	1,087
52 Wyoming.....	248	6,258	10	152	378	44	458
53 Colorado.....	1,548	32,890	65	844	2,152	336	4,230
54 New Mexico.....	250	4,476	5	165	475	48	516
55 Arizona.....	348	10,550	11	172	458	102	1,111
56 Utah.....	651	15,601	32	338	902	134	1,472
57 Nevada.....	123	2,200	7	71	174	26	284
<b>PACIFIC:</b>							
58 Washington.....	3,672	114,830	109	1,772	4,795	947	10,264
59 Oregon.....	2,463	65,505	104	1,300	3,244	609	6,571
60 California.....	12,019	290,911	488	6,176	16,004	3,109	33,441

<sup>1</sup> The figures for 1919 include data for establishments reporting products valued at less than \$5,000 and 1929). It is impossible to deduct these data from the figures for the several wage-earner groups, and accord

WAGE EARNERS, BY DIVISIONS AND STATES: 1929

total according to the customary hours of labor in that establishment, even though a few employees may be given separately without disclosing data for individual establishments, it has been combined with that and the item for the group with which it has been consolidated is printed in *italics*. The figures for the United States the data for each establishment are included in the item for the proper group, and therefore columns]

ESTABLISHMENTS EMPLOYING—continued											
21 to 50 wage earners, inclusive		51 to 100 wage earners, inclusive		101 to 250 wage earners, inclusive		251 to 500 wage earners, inclusive		501 to 1,000 wage earners, inclusive		Over 1,000 wage earners	
Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
25,022	814,465	12,487	891,671	10,195	1,589,040	3,940	1,331,145	1,722	1,176,991	996	2,159,989
25,379	829,301	12,405	888,344	10,068	1,581,763	3,589	1,250,875	1,749	1,205,827	1,021	2,397,596
2,569	84,034	1,379	99,353	1,263	196,139	506	177,260	264	180,245	158	288,027
8,300	269,092	4,038	286,924	2,952	455,568	1,050	362,406	441	302,037	280	604,506
5,620	185,212	2,983	215,460	2,635	409,493	1,012	355,465	485	333,437	326	367,669
1,659	53,096	800	56,190	578	90,564	202	70,554	84	67,416	51	75,187
2,848	83,500	1,221	87,804	1,101	178,208	483	167,556	204	138,961	87	163,165
997	33,128	572	41,256	497	78,001	184	64,547	76	51,773	39	65,738
1,203	38,589	509	36,032	409	63,522	131	42,537	55	39,591	16	30,852
366	11,471	166	11,561	130	20,733	45	19,802	24	21,197	6	4,116
1,760	56,343	799	57,091	630	97,207	229	77,699	89	53,758	33	48,769
190	6,352	100	7,018	94	13,592	35	12,022	18	12,667	8	12,049
155	4,994	74	5,301	104	16,309	31	10,517	11	7,785	7	16,320
139	4,316	51	3,818	48	6,786	7	2,610	6	5,426	1	(x)
1,998	46,136	770	55,897	605	94,272	251	87,377	136	91,971	78	141,725
253	8,108	152	10,804	138	22,030	77	26,717	31	20,049	20	31,825
434	14,128	232	16,515	274	43,150	105	38,017	62	42,347	44	86,108
4,802	153,922	1,918	135,780	1,226	185,526	394	134,655	161	110,095	101	202,660
1,186	38,901	660	46,537	539	83,693	194	68,686	87	59,864	51	110,603
2,312	76,269	1,460	104,607	1,187	186,349	462	159,065	193	132,078	128	291,343
1,532	50,907	868	62,422	796	122,917	312	109,621	161	110,423	90	238,349
660	22,147	376	27,614	348	53,546	122	42,189	62	41,249	43	107,654
1,003	62,642	949	68,293	778	119,846	271	96,192	129	89,551	76	194,022
819	26,731	451	32,801	406	63,469	181	63,427	87	60,885	79	257,197
706	22,803	339	24,330	309	49,725	126	44,036	46	31,329	38	70,447
394	12,680	175	12,403	134	20,702	41	13,488	16	10,548	12	17,042
298	9,562	158	11,331	88	13,410	25	8,330	18	12,789	9	12,800
629	20,215	341	23,714	257	41,167	99	34,557	42	28,957	20	30,502
23	750	10	705	5	1,160	1	(x)				
27	853	6	455	5	813	2	2,145				
115	3,646	40	2,876	35	5,081	8	2,654	3	1,995	4	6,181
173	5,390	70	4,706	54	8,241	26	9,380	5	3,127	5	8,662
48	1,574	30	2,257	33	5,655	12	4,242	6	4,122	3	3,799
418	13,725	226	15,997	150	23,909	49	17,499	35	23,570	8	22,336
61	1,841	17	1,163	16	2,366	4	2,298	1	(x)		
297	8,000	154	11,025	128	20,699	60	19,857	21	13,688	12	31,124
181	5,966	88	6,573	108	17,924	46	15,175	22	14,531	9	19,665
384	12,960	249	18,546	322	32,602	117	40,990	40	25,890	24	43,451
182	5,832	82	5,726	85	14,576	79	28,607	39	28,928	12	16,998
641	20,762	269	18,948	181	28,537	84	27,806	31	21,752	15	20,303
336	11,210	106	7,569	77	11,940	32	11,082	9	6,480	4	5,479
222	7,374	120	8,179	98	15,102	26	9,225	18	12,534	8	16,410
286	9,499	200	14,336	188	30,131	64	22,987	21	13,795	16	26,571
300	9,955	184	12,190	142	22,918	60	20,105	26	17,980	15	22,757
189	6,300	86	6,551	69	10,450	34	12,230	11	7,404		
198	6,636	73	5,209	70	10,607	12	4,521	11	9,532	1	(x)
271	8,916	139	9,952	139	22,073	52	15,615	23	15,387	3	6,928
158	4,892	56	3,916	30	4,672	16	5,107	7	5,610	1	(x)
576	18,145	241	16,955	170	26,170	51	17,294	14	9,062	11	23,924
43	1,320	20	1,412	15	2,414	10	3,329	4	4,114	1	(x)
50	1,553	13	888	10	1,491	4	1,388	6	4,290	3	4,116
13	417	12	853	13	2,071	3	2,081	1	(x)		
129	3,976	58	3,985	50	7,589	11	4,156	3	6,802	2	(x)
17	522	5	364	5	678	4	1,021	1	(x)		
33	1,039	12	875	8	1,510	6	2,274	4	3,283		
71	2,345	41	2,828	27	3,863	4	1,453	4	2,708		
10	299	5	356	2	1,087	1	(x)	1	(x)		
403	13,097	172	12,447	170	26,929	72	23,424	22	15,259	5	8,615
214	6,843	100	7,296	74	11,798	44	15,461	14	9,841	4	4,451
1,143	36,403	527	37,348	356	58,540	113	38,814	53	34,658	24	35,703

for those in the automobile-repairing industry (which were not canvassed at the manufactures census of 1929) they have been retained in the totals.

TABLE 18.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND OF WAGE REPORTING 5,000 OR MORE

[The average number of wage earners employed during the year in each establishment is classified as a have worked a larger or a smaller number of hours. *The establishments (7,428 in number) which reported operation per week.* In cases where the item for a certain group can not be given separately without cases an "x" is shown in the column in which the item has been omitted, and the item for the group establishment are included in the item for the group in which the establishment properly belongs,

	INDUSTRY	TOTAL		HOURS NOT REPORTED		40 HOURS AND UNDER	
		Estab-lish-ments	Wage earners (aver- age for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
0	All industries.....	210,959	3,838,743	26,196	88,567	11,821	286,685
	<i>Industries reporting 5,000 or more wage earners</i>						
1	Agricultural implements.....	293	41,663	37	160	6	34
2	Aircraft and parts.....	132	14,710	2	(x)	2	14
3	Aluminum manufactures.....	150	21,210	5	13	4	296
4	Ammunition and related products.....	21	7,223			1	(x)
5	Asbestos products, other than steam packing and pipe and boiler covering.....	67	8,092	3	6	1	(x)
6	Awnings, tents, sails, and canvas covers.....	1,002	7,162	161	474	10	22
7	Bags, other than paper, not made in textile mills.....	202	11,828	8	14	11	114
8	Bags, paper, exclusive of those made in paper mills.....	95	6,970				
9	Baskets and rattan and willow ware, not including furniture.....	273	9,353	30	161	6	61
10	Beverages.....	5,154	28,281	680	1,079	395	1,196
11	Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	117	16,175	4	15	5	596
12	Bookbinding and blank-book making.....	1,108	24,754	122	375	8	58
13	Boot and shoe cut stock, not made in boot and shoe factories.....	210	9,499	13	24	5	61
14	Boot and shoe findings, not made in boot and shoe factories.....	382	10,376	8	27	12	161
15	Boots and shoes, other than rubber.....	1,341	205,640	47	148	46	4,797
16	Boots and shoes, rubber.....	22	25,659				
17	Boxes, paper, not elsewhere classified.....	1,249	55,654			48	995
18	Boxes, wooden, except cigar boxes.....	792	30,554	66	317	25	603
19	Bread and other bakery products.....	20,785	200,841	4,191	7,751	300	1,807
20	Brushes, other than rubber.....	303	7,261	30	77	10	53
21	Butter.....	3,527	19,097	65	50	112	178
22	Buttons.....	242	9,034	26	122	3	24
23	Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	348	13,612	14	59	63	2,723
24	Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	2,997	98,866	444	1,682	233	2,420
25	Car and general construction and repairs, electric-railroad repair shops.....	446	29,475	1	(x)	2	108
26	Car and general construction and repairs, steam-railroad repair shops.....	1,851	368,681	2	(x)	36	12,439
27	Carpets and rugs, wool, other than rag.....	67	32,623			2	(x)
28	Carrriages and sleds, children's.....	79	7,102			1	(x)
29	Cars, electric and steam railroad, not built in railroad repair shops.....	147	40,015			1	(x)
30	Cash registers and adding, calculating, and card-tabulating machines.....	46	16,840	2	(x)		
31	Caskets, coffins, burial cases, and other morticians' goods.....	414	13,033	33	102	10	256
32	Cast-iron pipe.....	72	19,741			11	1,567
33	Cement.....	174	33,368			1	(x)
34	Cereal preparations.....	121	6,488	9	16	7	94
35	Chemicals, not elsewhere classified.....	551	62,190			7	43
36	Chocolate and cocoa products, not including confectionery.....	59	6,249				
37	Cigars and cigarettes.....	1,636	105,308	226	576	193	2,882
38	Clay products (other than pottery) and non-clay refractories.....	1,749	93,336			47	2,351
39	Clocks, clock movements, time-recording devices, and time stamps.....	56	10,401	2	(x)	3	31
40	Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	3,691	149,868	502	3,543	289	11,182
41	Clothing, women's, not elsewhere classified.....	8,082	187,500	507	4,016	1,963	33,115
42	Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's.....	511	38,201	19	151	41	978
43	Coffee and spice, roasting and grinding.....	928	9,053	34	26	72	272
44	Coke, not including gas-house coke.....	153	20,552			9	1,007
45	Concrete products.....	2,438	16,505	328	821	106	558
46	Condensed and evaporated milk.....	535	7,065	5	5	5	16
47	Confectionery.....	2,021	68,501	292	658	135	1,407
48	Cooperage.....	586	10,691	95	254	26	263

EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR INDUSTRIES  
WAGE EARNERS: 1929

total according to the customary hours of labor in that establishment even though a few employees may no wage earners are classified under the appropriate heads, according to the numbers of hours the plants were in disclosing data for individual establishments, it has been combined with that for another group. In such with which it has been consolidated is printed in italics. In the totals for all industries the data for each and therefore the totals differ from the sums of the items in the respective columns]

OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS		
Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	
40,269	894,830	51,530	2,837,835	43,327	2,754,717	37,816	1,976,109	0
21	1,167	32	1,009	130	32,695	67	6,598	1
15	975	58	9,484	50	3,910	5	327	2
39	1,236	24	4,309	66	14,101	12	1,255	3
5	994	5	1,742	7	1,320	3	3,167	4
3	205	19	1,519	24	3,859	17	2,503	5
237	1,501	276	1,926	260	2,899	58	340	6
34	1,857	51	2,921	80	5,909	18	1,013	7
10	181	28	1,899	53	4,396	4	494	8
22	439	40	897	97	3,221	78	4,574	9
283	3,179	1,650	10,375	1,002	6,676	1,144	5,776	10
9	289	14	2,047	54	6,064	31	7,164	11
345	5,703	566	16,060	64	1,952	3	606	12
18	263	105	6,846	64	2,104	5	201	13
46	660	163	3,778	147	5,508	6	242	14
252	17,282	549	94,484	419	84,595	28	4,334	15
4	3,643	9	11,676	8	10,340	1	(x)	16
163	3,903	481	19,166	484	26,025	73	5,565	17
78	1,618	125	3,373	289	11,636	209	13,007	18
393	8,955	7,224	79,381	4,103	71,048	4,574	31,899	19
68	1,351	66	1,823	116	3,720	13	237	20
51	110	582	2,163	505	3,922	2,212	12,674	21
42	448	49	2,837	77	3,833	45	1,770	22
20	337	112	3,986	62	3,114	77	3,393	23
154	3,817	617	19,494	613	33,438	936	38,015	24
31	5,300	69	6,369	176	14,039	167	3,664	25
55	23,282	937	220,393	44	2,653	777	109,914	26
5	1,655	31	14,875	23	11,747	6	4,346	27
9	257	6	176	55	5,616	8	1,053	28
27	2,531	65	11,320	37	18,407	18	7,757	29
7	572	17	2,402	18	13,866	2	(x)	30
61	1,219	102	3,223	163	6,875	45	1,358	31
1	(x)	13	4,802	18	5,900	29	7,972	32
1	(x)	18	3,373	8	1,650	146	28,345	33
13	1,653	22	3,074	27	522	43	1,129	34
64	1,219	138	21,468	130	11,289	212	28,180	35
4	113	18	1,520	28	3,992	9	624	36
445	10,983	375	25,474	312	55,201	85	10,192	37
85	3,316	335	17,703	674	42,041	608	27,925	38
8	2,739	17	1,876	23	4,236	3	1,519	39
2,035	91,774	545	24,752	299	17,625	21	992	40
3,933	85,007	1,209	41,432	459	23,479	11	451	41
217	17,518	105	6,263	119	12,142	10	1,149	42
157	1,289	244	2,737	302	4,091	119	638	43
		65	8,854	28	1,356	51	9,335	44
323	2,563	418	2,562	799	6,527	464	3,474	45
4	9	74	548	129	2,550	318	3,927	46
263	6,277	680	19,634	506	27,486	145	8,039	47
74	1,226	115	1,989	151	4,112	125	2,847	48

TABLE 18.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND OF WAGE REPORTING 5,000 OR MORE

[See note at head

	INDUSTRY	TOTAL		HOURS NOT REPORTED		40 HOURS AND UNDER	
		Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
1	Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.	2, 161	28, 598	321	913	250	2, 372
2	Cordage and twine.	123	14, 489			2	(x)
3	Corn sirup, corn sugar, corn oil, and starch.	35	6, 730	13	64		
4	Corsets and allied garments.	213	13, 064	12	21	13	602
5	Cotton goods.	1, 281	424, 916			26	5, 290
6	Cotton small wares.	202	15, 281			3	83
7	Cutlery (not including silver and plated cutlery) and edge tools.	239	14, 991	11	45	11	263
8	Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; and poultrymen's and apiarists' supplies.	172	5, 450	18	83	5	109
9	Doors, shutters, and window sash and frames, metal.	148	9, 557	7	23	25	445
10	Druggists' preparations.	429	10, 688	13	46	32	269
11	Dyeing and finishing textiles.	732	79, 327			23	1, 075
12	Electrical machinery, apparatus, and supplies.	1, 802	328, 722	124	554	33	705
13	Electroplating.	534	5, 928	92	258	9	98
14	Embroideries.	813	6, 022	64	243	59	367
15	Engines, turbines, tractors, and water wheels.	199	61, 148	5	33	3	22
16	Engraving, steel and copperplate, and plate printing.	456	10, 130	47	189	8	21
17	Envelopes.	171	10, 367			3	15
18	Explosives.	95	5, 614			8	50
19	Fancy and miscellaneous articles, not elsewhere classified.	814	18, 722	117	445	33	432
20	Feeds, prepared, for animals and fowls.	750	10, 923	35	33	41	191
21	Felt goods, wool, hair, or jute.	54	5, 540				
22	Fertilizers.	638	26, 926	7	78		
23	Firearms.	21	8, 838	2	15		
24	Flavoring extracts and flavoring sirups.	642	5, 041	82	111	29	71
25	Flour and other grain-mill products.	4, 022	27, 028	1, 124	718	255	601
26	Food preparations, not elsewhere classified.	862	10, 616	136	258	49	153
27	Forgings, iron and steel, not made in plants operated in connection with rolling mills.	218	20, 882	6	22	10	1, 604
28	Foundry and machine-shop products, not elsewhere classified.	8, 605	454, 441	612	2, 376	241	8, 556
29	Fur goods.	2, 855	15, 752			1, 535	9, 281
30	Furnishing goods, men's, not elsewhere classified.	598	26, 588	63	311	28	448
31	Furniture, including store and office fixtures.	3, 778	193, 399	374	1, 034	206	7, 305
32	Furs, dressed.	248	5, 167			37	1, 046
33	Gas and electric fixtures; lamps, lanterns, and reflectors.	614	23, 580	49	143	26	1, 117
34	Gas machines, gas meters, and water and other liquid meters.	72	6, 101	2	14	1	(x)
35	Gas, manufactured, illuminating and heating.	754	43, 065			34	284
36	Glass.	263	67, 527	2	(x)	7	2, 022
37	Glass products (except mirrors) made from purchased glass.	431	6, 029	50	137	39	277
38	Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.	125	9, 279	5	39	14	246
39	Gloves and mittens, leather.	257	9, 203	15	53	10	222
40	Grease and tallow, not including lubricating greases.	297	5, 475	16	46	4	24
41	Handkerchiefs.	105	6, 014			3	36
42	Hardware not elsewhere classified.	485	52, 306	4	20	12	390
43	Hats and caps, except felt and straw, men's.	576	5, 826			165	1, 923
44	Hats, fur-felt.	150	10, 559			22	718
45	House-furnishing goods, not elsewhere classified.	964	15, 794			59	767
46	Ice cream.	3, 150	22, 399	368	412	270	250
47	Ice, manufactured.	4, 110	32, 184	512	2, 097	11	33
48	Instruments: Professional and scientific.	276	16, 876	23	69	4	18
49	Iron and steel: Blast furnaces.	105	24, 900			1	(x)
50	Iron and steel: Steel works and rolling mills.	486	304, 574			21	13, 625
51	Jewelry.	1, 536	27, 922	197	408	74	623
52	Knit goods.	1, 888	208, 488			33	930
53	Lace goods.	42	6, 854				
54	Leather goods, not elsewhere classified.	392	6, 035	58	117	8	17
55	Leather: Tanned, curried, and finished.	471	49, 932	1	(x)	5	637
56	Line.	237	3, 554	3	44	1	(x)

MANUFACTURES

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EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR INDUSTRIES  
WAGE EARNERS: 1929—Continued.

of this table]

OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS		
Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	
864	9,023	317	4,643	332	7,791	77	3,851	1
6	183	30	4,666	39	4,079	46	5,561	2
3	182	6	3,860	5	197	8	2,427	3
86	3,870	76	5,847	26	3,324			4
23	2,045	214	90,407	199	57,635	819	269,539	5
19	503	70	5,558	77	7,302	33	1,855	6
25	449	64	4,761	102	7,140	26	2,333	7
23	375	28	1,179	67	2,199	31	1,505	8
53	2,532	19	2,191	40	4,052	4	314	9
172	2,401	120	4,903	77	2,889	15	180	10
93	3,432	262	32,064	244	25,644	110	17,112	11
302	17,218	561	194,485	675	104,267	107	11,493	12
109	912	148	1,784	155	2,561	21	315	13
264	2,107	149	1,676	267	2,185	10	44	14
23	7,005	36	7,662	96	32,394	36	14,032	15
140	4,074	220	4,849	40	997	1	(x)	16
21	523	99	6,203	47	3,626	1	(x)	17
13	1,959	50	2,985	11	582	13	28	18
283	5,354	221	6,120	150	5,479	10	892	19
25	353	124	1,874	186	2,503	339	5,269	20
1	(x)	14	1,692	24	2,659	15	1,189	21
17	337	57	1,798	125	2,815	432	15,898	22
1	(x)	2	(x)	13	5,641	3	1,282	23
194	1,534	189	2,100	120	1,014	28	211	24
52	376	430	11,525	432	2,337	1,729	11,471	25
136	1,569	217	1,949	215	4,095	109	2,592	26
17	354	26	3,220	104	9,065	55	6,617	27
1,342	36,076	1,996	116,118	3,404	213,505	1,010	77,810	28
855	3,846	337	1,722	95	749	33	154	29
235	7,257	158	9,575	109	8,094	5	903	30
835	17,391	583	25,473	1,284	93,390	496	48,806	31
119	1,945	45	785	41	1,087	6	304	32
155	2,859	191	7,038	177	10,849	16	974	33
6	1,542	24	1,617	38	2,928	1	(x)	34
21	2,371	129	16,287	34	537	536	23,586	35
28	3,513	142	40,825	45	10,084	39	11,083	36
141	1,148	95	2,532	95	1,750	11	165	37
13	418	21	1,032	61	7,260	11	284	38
53	1,090	37	1,171	92	4,571	50	2,096	39
18	136	56	803	96	2,163	107	2,303	40
35	701	32	2,953	30	2,804	1	(x)	41
60	1,597	103	7,377	237	37,246	52	5,699	42
209	2,115	167	1,366	82	438	3	14	43
80	4,661	24	6,194	30	4,877	3	159	44
319	3,744	435	7,326	132	3,122	19	835	45
76	226	484	3,656	364	5,139	1,588	12,716	46
16	105	313	3,518	83	581	3,175	25,850	47
82	5,046	82	4,873	81	6,228	4	642	48
		27	10,087	2	(x)	75	14,873	49
39	22,716	107	151,370	128	48,115	191	158,748	50
764	8,765	364	13,523	116	3,885	21	718	51
215	8,188	713	55,568	593	87,834	334	55,968	52
		12	2,381	24	3,949	6	524	53
		12	2,556	71	1,736	6	119	54
113	1,490	136	4,412	339	40,026	38	2,853	55
30	2,104	58	953	59	2,533	128	4,968	56
3	56	43						

TABLE 18.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND OF WAGE REPORTING 5,000 OR MORE

[See note at head]

	INDUSTRY	TOTAL		HOURS NOT REPORTED		40 HOURS AND UNDER	
		Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
1	Linoleum.....	7	5,544				
2	Lithographing.....	376	18,979	18	30	9	170
3	Locomotives, not made in railroad repair shops.....	16	11,045				
4	Lumber and timber products, not elsewhere classified.....	12,915	419,084	6,333	31,514	350	15,874
5	Macaroni, spaghetti, vermicelli, and noodles.....	353	5,072	45	51	59	176
6	Machine-tool accessories and small metal-working tools, not elsewhere classified.....	722	26,682	42	108	4	27
7	Machine tools.....	280	47,391	5	26	1	(x)
8	Marble, granite, slate, and other stone products.....	1,881	37,817	150	580	406	6,008
9	Mattresses and bed springs, not elsewhere classified.....	951	17,187	143		41	317
10	Meat packing, wholesale.....	1,277	122,505	18	10	68	2,091
11	Millinery.....	1,293	32,206			31	273
12	Models and patterns, not including paper patterns.....	804	6,778	97	244	14	79
13	Motion pictures, not including projection in theaters.....	142	10,784	7	42	5	100
14	Motor-vehicle bodies and motor-vehicle parts.....	1,154	221,332	39	97	17	13,569
15	Motor vehicles, not including motor cycles.....	244	226,116			33	44,417
16	Musical instruments: Pianos.....	81	9,970	1	(x)	6	185
17	Needles, pins, hooks and eyes, and snap fasteners.....	43	6,242	1	(x)	1	(x)
18	Nonferrous-metal alloys and products, not including aluminum products.....	1,225	79,183	81	209	52	1,545
19	Oil, cake, and meal, cottonseed.....	553	15,825			1	(x)
20	Optical goods.....	117	9,701	13	20	3	6
21	Paints and varnishes.....	1,063	29,211	29	54	2	(x)
22	Paper.....	685	103,320			32	5,309
23	Paper goods, not elsewhere classified.....	436	20,227			18	360
24	Patent or proprietary medicines and compounds.....	1,522	16,434	30	71	129	429
25	Peanuts, walnuts, and other nuts, processed or shelled.....	169	7,933	6	22	6	91
26	Pencils, lead (including mechanical).....	38	5,703			2	(x)
27	Perfumes, cosmetics, and other toilet preparations.....	815	13,109	2	(x)	51	305
28	Petroleum refining.....	390	80,596			1	
29	Phonographs.....	59	14,416	2	342	1	(x)
30	Photo-engraving, not done in printing establishments.....	654	12,353	24	70	1	(x)
31	Photographic apparatus and materials.....	115	12,967	9	18	2	(x)
32	Planing-mill products (including general mill-work), not made in planing mills connected with sawmills.....	4,849	90,134	560	1,442	300	4,787
33	Plated ware.....	96	10,728	3	11	2	(x)
34	Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	255	27,960	7	31	11	675
35	Pocketbooks, purses, and cardcases.....	290	10,430	16	54	7	188
36	Pottery, including porcelain ware.....	313	35,409			8	506
37	Poultry killing, dressing, and packing, wholesale.....	485	7,769			10	38
38	Printing and publishing, book and job.....	12,712	150,649	5	4	236	1,227
39	Printing and publishing, newspaper and periodical.....	11,524	129,660	1,580	3,157	441	1,111
				1,989	5,783		
40	Pulp (wood and other fiber).....	198	24,729			2	144
41	Pumps (hand and power) and pumping equipment.....	322	23,106	22	79	7	74
42	Rayon and allied products.....	29	39,106				
43	Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	188	9,784	9	28	9	87
44	Refrigerators, mechanical.....	34	16,883				
45	Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	102	6,027	7	15	3	63
46	Rubber goods other than tires, inner tubes, and boots and shoes.....	412	40,226	13	34	13	408
47	Rubber tires and inner tubes.....	91	83,263			11	937
48	Salt.....	58	5,458			1	(x)
49	Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	681	5,897	61	33	44	130
50	Screw-machine products and wood screws.....	273	19,881	10	24	2	(x)
51	Sewing machines and attachments.....	39	10,467	6	15	2	(x)



MANUFACTURES

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EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR INDUSTRIES  
WAGE EARNERS: 1929—Continued

of this table]

OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS		
Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	
45	904	1	(x)	2	1,475	4	4,069	1
2	(x)	297	17,548	6	327	1	(x)	2
75	4,635	4	459	7	5,956	3	4,630	3
		1,803	95,068	1,391	48,125	2,963	223,868	4
22	262	81	826	99	2,526	47	1,231	5
45	391	154	3,528	403	14,825	84	7,803	6
10	636	56	8,691	154	29,691	54	8,297	7
676	10,759	215	3,301	338	12,443	96	4,726	8
214	2,568	169	3,001	281	8,941	103	2,077	9
157	9,875	345	82,319	332	16,908	357	11,302	10
842	18,374	339	8,879	73	4,177	3	503	11
358	3,272	106	914	216	2,187	13	82	12
41	1,357	82	9,278	4	2	3	5	13
139	5,727	230	12,888	580	145,059	149	43,992	14
29	3,994	44	15,651	121	155,009	17	7,045	15
8	264	33	5,116	30	4,090	3	315	16
3	104	10	1,226	21	2,105	7	2,807	17
251	3,611	309	10,736	420	32,541	112	30,541	18
18	326	4	123	7	269	541	15,433	19
198	2,967	43	7,465	37	1,650	3	234	20
14	3,133	255	5,939	448	14,830	130	6,021	21
73	751	343	66,651	72	10,187	224	18,040	22
663	4,464	128	9,157	156	7,608	61	2,351	23
16	246	376	6,153	253	4,447	71	870	24
7	182	37	1,995	39	1,621	65	3,958	25
434	5,327	10	2,747	15	2,487	4	289	26
3	219	239	5,446	80	2,061	9	70	27
12	303	123	41,867	15	1,265	248	37,245	28
472	8,968	14	10,202	21	2,387	9	1,182	29
42	553	139	3,088	14	154	4	73	30
1,098	17,984	34	10,710	26	1,666	2	(x)	31
7	1,324	680	16,637	1,377	27,980	834	21,304	32
28	558	25	1,297	54	6,876	5	1,220	23
176	6,248	52	3,698	126	19,461	31	3,537	34
34	2,029	58	2,185	32	1,755	1	(x)	35
10	130	64	7,953	164	21,184	43	3,737	36
5,525	67,203	76	899	81	1,463	303	5,235	37
3,539	24,911	4,485	70,822	793	7,895	93	345	38
1	(x)	3,726	86,491	1,532	9,589	297	1,775	39
63	1,982	11	18,985	18	2,312	46	3,288	40
53	1,280	83	7,060	125	10,736	22	3,175	41
5	25	11	28,499	5	3,288	13	7,339	42
18	306	23	639	66	6,301	18	1,449	43
50	1,218	11	5,247	16	11,311	2	(x)	44
15	19,860	21	1,441	22	1,680	31	2,542	45
1	(x)	130	19,130	146	13,098	60	6,338	46
86	636	30	55,240	24	5,026	11	2,200	47
10	104	14	1,421	16	1,323	26	2,714	48
4	52	181	1,844	183	2,243	126	1,011	49
		34	2,504	146	11,161	71	6,088	50
		12	6,565	14	3,835	1	(x)	51

TABLE 18.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND OF WAGE REPORTING 5,000 OR MORE

[See note at head

	INDUSTRY	TOTAL		HOURS NOT REPORTED		40 HOURS AND UNDER	
		Estab-lish-ments	Wage earners (aver- age for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
1	Ship and boat building, steel and wooden, including repair work.	624	55,089	53	207	3	34
2	Shirts.....	803	59,830	46	420	33	612
3	Signs and advertising novelties.....	1,239	20,000	227	560	94	1,044
4	Silk and rayon manufactures.....	1,491	130,467	-----	-----	22	623
5	Silversmithing and silverware.....	83	5,007	4	7	1	(x)
6	Smelting and refining, copper.....	26	14,544	-----	-----	-----	-----
7	Smelting and refining, zinc.....	30	11,618	-----	-----	-----	-----
8	Soap.....	282	14,363	24	62	8	16
9	Sporting and athletic goods, not including fire-arms or ammunition.	242	10,793	-----	-----	7	50
10	Springs, steel, except wire, not made in plants operated in connection with rolling mills.	86	5,842	3	8	1	(x)
11	Stamped ware, enameled ware, and metal stamp- ing, enameling, japanning, and lacquering.	582	40,000	38	164	5	576
12	Stationery goods, not elsewhere classified.....	203	11,078	9	26	7	99
13	Steam and other packing, pipe and boiler cover- ing, and gaskets, not elsewhere classified.	171	7,266	13	18	4	8
14	Steam fittings and steam and hot-water heating apparatus.	240	39,621	5	26	10	1,920
15	Stereotyping and electrotyping, not done in printing establishments.	230	6,487	3	4	1	(x)
16	Stoves and ranges (other than electric) and warm- air furnaces.	609	46,616	47	220	38	2,960
17	Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.	1,482	54,947	106	285	32	199
18	Sugar, beet.....	82	7,496	-----	-----	-----	-----
19	Sugar refining, cane.....	21	13,912	-----	-----	-----	-----
20	Surgical and orthopedic appliances, including artificial limbs.	363	7,910	61	152	10	142
21	Textile machinery and parts.....	376	27,019	18	86	11	500
22	Tin cans and other tinware, not elsewhere classi- fied.	232	31,497	12	25	5	37
23	Tobacco: Chewing and smoking, and snuff.....	152	10,811	9	30	25	57
24	Tools, not including edge tools, machine tools, files, or saws.	534	19,305	77	245	18	351
25	Toys (not including children's wheel goods or sleds), games, and playground equipment.	476	16,660	2	(x)	12	188
26	Trimmings (not made in textile mills) and stamped art goods for embroidering.	639	7,934	-----	-----	33	236
27	Trunks, suitcases, and bags.....	467	11,359	46	113	7	243
28	Turpentine and rosin.....	1,183	40,157	228	4,303	386	12,085
29	Typewriters and parts.....	26	16,945	1	(x)	-----	-----
30	Wall plaster, wall board, insulating board, and floor composition.	236	7,462	14	46	10	80
31	Washing machines, wringers, driers, and ironing machines, for household use.	65	8,189	1	(x)	1	(x)
32	Watches and watch movements.....	8	10,738	-----	-----	-----	-----
33	Wire, drawn from purchased bars or rods.....	81	22,467	-----	-----	-----	-----
34	Wirework, not elsewhere classified.....	547	22,388	52	153	13	210
35	Wood preserving.....	199	13,077	2	89	1	(x)
36	Wood turned and shaped and other wooden goods, not elsewhere classified.	894	18,712	135	570	28	252
37	Woolen goods.....	460	58,474	-----	-----	11	218
38	Worsted goods.....	264	88,485	-----	-----	1	(x)
39	Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.	50	11,417	-----	-----	2	(x)

EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR INDUSTRIES  
WAGE EARNERS: 1929—Continued.

of this table]

OVER 40 BUT UNDER 45 HOURS		45 TO 48 HOURS, INCLUSIVE		OVER 48 BUT NOT OVER 54 HOURS		OVER 54 HOURS		
Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	Establishments	Wage earners	
162	17,562	236	27,032	148	9,617	22	637	1
293	13,977	256	22,146	222	22,038	13	637	2
500	5,487	247	7,896	145	4,281	26	732	3
501	17,577	214	30,154	573	62,169	181	19,944	4
25	828	28	730	22	3,028	3	414	5
-----	-----	7	4,342	4	2,264	15	7,938	6
92	1,131	7	3,256	2	(x)	21	8,362	7
38	837	36	5,072	91	7,041	31	1,041	8
11	645	74	3,194	108	5,185	15	1,527	9
48	2,682	19	617	43	2,566	9	2,006	10
41	827	130	7,656	286	18,999	75	9,923	11
36	304	77	5,065	60	4,741	9	320	12
33	1,745	31	1,548	66	3,612	21	1,776	13
135	4,126	75	19,832	97	13,894	20	2,204	14
145	5,458	86	2,268	5	89	-----	-----	15
325	6,248	156	13,182	176	18,320	47	6,476	16
-----	-----	273	8,467	585	22,154	161	17,594	17
-----	-----	1	(x)	-----	-----	81	7,496	18
105	1,367	4	2,886	4	2,606	13	8,420	19
32	697	97	2,857	79	3,248	11	144	20
23	498	103	4,117	157	17,751	55	3,868	21
25	167	58	9,916	115	18,663	19	2,358	22
55	751	25	2,012	44	7,709	24	836	23
128	1,823	117	3,745	227	12,309	40	1,904	24
315	3,459	88	3,026	216	9,810	30	1,818	25
96	1,492	253	3,409	36	830	2	(x)	26
53	1,808	182	5,595	116	3,448	20	468	27
1	(x)	300	12,837	96	3,467	111	5,657	28
39	539	5	585	19	16,380	-----	-----	29
6	931	47	566	61	2,037	65	4,194	30
2	(x)	10	1,956	39	4,593	8	719	31
2	(x)	2	6,026	4	4,712	-----	-----	32
58	1,755	10	5,665	19	2,533	50	14,269	33
10	186	113	2,037	238	13,659	73	4,574	34
77	1,055	66	3,869	38	2,165	82	6,758	35
16	1,020	99	1,880	386	9,984	169	4,971	36
9	1,333	165	26,126	188	20,888	80	10,222	37
7	657	104	48,452	122	32,923	28	5,777	38
		10	484	16	4,085	15	6,191	39

TABLE 19.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND OF WAGE EARN

[The average number of wage earners employed during the year in each establishment is classified as a total worked a larger or a smaller number of hours. *The establishments (7,122 in number) which reported no operation per week.* In cases where the item for a certain group can not be given separately without cases an "x" is shown in the column in which the item has been omitted, and the item for the group been adjusted in harmony with those for the States; but in the totals for the United States the data from the sums of the geographic-division items and of the State items in the respective columns]

DIVISION AND STATE	TOTAL		40 HOURS AND UNDER		OVER 40 HOURS BUT UNDER 44		44 HOURS AND OVER BUT UNDER 45		45 HOURS AND OVER BUT UNDER 48	
	Estab-lish-ments	Wage earners (average for the year)	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners
1 United States.....	210,959	3,838,743	11,821	286,685	1,919	83,614	38,350	811,216	10,313	485,539
2 GEOGRAPHIC DIVISIONS:										
3 New England.....	18,272	1,098,514	835	20,637	211	9,599	2,735	58,667	1,211	51,108
4 Middle Atlantic.....	64,730	2,592,340	6,426	107,537	927	54,624	16,946	319,992	4,186	185,543
5 East North Central.....	46,396	2,542,176	1,600	81,262	359	9,311	7,796	224,816	2,372	136,129
6 West North Central.....	17,722	474,115	516	15,318	117	1,491	2,538	53,149	722	34,829
7 South Atlantic.....	20,860	912,247	1,027	25,260	102	3,466	1,601	39,164	612	36,834
8 East South Central.....	9,860	377,870	392	10,319	31	526	507	8,276	197	7,994
9 West South Central.....	10,576	297,743	317	8,055	42	1,371	826	13,007	176	9,011
10 Mountain.....	4,319	102,492	133	2,747	30	363	548	7,002	252	6,851
Pacific.....	18,154	471,246	375	15,525	100	1,395	4,853	88,608	585	17,740
11 NEW ENGLAND:										
12 Maine.....	1,568	70,159	61	2,971	13	552	96	2,085	46	1,098
13 New Hampshire.....	1,075	65,511	26	269	8	315	62	2,829	38	1,981
14 Vermont.....	927	27,421	84	1,114	4	309	91	1,847	34	1,407
15 Massachusetts.....	9,872	557,494	504	12,944	147	6,775	1,381	37,015	814	30,898
16 Rhode Island.....	1,701	126,068	58	1,107	23	642	203	3,702	100	6,543
Connecticut.....	3,129	251,861	102	2,232	16	1,006	402	11,189	179	9,181
17 MIDDLE ATLANTIC:										
18 New York.....	39,395	1,105,966	5,210	73,348	681	44,496	12,603	207,758	2,521	83,258
19 New Jersey.....	8,388	442,328	495	12,215	77	2,063	1,957	56,071	701	57,590
20 Pennsylvania.....	16,947	1,014,046	721	21,974	169	8,065	2,386	56,163	964	44,695
21 EAST NORTH CENTRAL:										
22 Ohio.....	11,855	741,143	409	21,992	75	1,782	1,821	71,530	595	49,518
23 Indiana.....	5,091	314,698	209	11,020	20	235	503	14,047	250	12,624
24 Illinois.....	15,333	691,555	630	17,470	147	2,755	4,149	109,932	1,003	41,392
25 Michigan.....	6,686	530,035	201	26,253	54	3,533	703	15,268	313	24,551
26 Wisconsin.....	7,431	264,745	151	4,527	63	1,006	620	14,039	211	8,044
27 WEST NORTH CENTRAL:										
28 Minnesota.....	4,315	103,414	107	2,560	39	246	650	17,030	196	6,398
29 Iowa.....	3,317	81,678	94	3,220	24	131	337	7,234	72	4,406
30 Missouri.....	5,765	202,879	241	7,890	44	1,043	1,167	20,602	370	18,140
31 North Dakota.....	373	4,024	5	14			21	622	5	370
32 South Dakota.....	615	6,535	13	51	1	(x)	22	1,583	3	6
33 Nebraska.....	1,491	28,212	26	1,121	6	50	199	3,295	48	4,023
34 Kansas.....	1,916	47,373	30	460	3	21	142	2,783	28	986
35 SOUTH ATLANTIC:										
36 Delaware.....	460	23,552	9	48	1	(x)	41	539	16	884
37 Maryland.....	3,231	131,099	148	1,968	23	1,392	608	22,327	193	11,611
38 Dist. of Columbia.....	547	9,752	69	221	9	174	161	2,333	22	310
39 Virginia.....	3,287	120,273	129	2,822	13	395	174	2,417	116	12,632
40 West Virginia.....	1,488	85,326	46	1,125	7	498	88	4,090	38	2,896
41 North Carolina.....	3,797	209,826	94	3,293	10	308	92	1,050	54	2,380
42 South Carolina.....	1,659	108,777	64	984	9	71	49	731	18	262
43 Georgia.....	4,179	158,774	336	9,858	13	222	230	3,892	100	4,286
44 Florida.....	2,212	64,868	132	4,971	17	406	158	1,785	55	1,573
45 EAST SOUTH CENTRAL:										
46 Kentucky.....	2,246	77,825	87	2,332	7	7	166	2,497	63	2,007
47 Tennessee.....	2,855	128,400	91	3,297	11	439	181	2,754	68	2,610
48 Alabama.....	2,848	119,559	139	3,684	9	52	132	2,854	36	2,310
49 Mississippi.....	1,911	52,086	75	1,006	4	28	28	171	30	1,067
50 WEST SOUTH CENTRAL:										
51 Arkansas.....	1,731	44,205	64	956	2	(x)	42	458	21	1,021
52 Louisiana.....	1,989	87,345	80	2,401	17	1,140	168	3,940	52	2,242
53 Oklahoma.....	1,658	31,695	35	1,467	8	87	130	1,242	13	266
54 Texas.....	5,198	134,498	138	3,231	15	144	486	7,367	90	5,482
55 MOUNTAIN:										
56 Montana.....	589	14,869	12	29	4	7	56	415	11	668
57 Idaho.....	562	15,648	13	726	2	(x)	19	1,604	6	1,130
58 Wyoming.....	248	6,288	3	6	1	(x)	20	167	5	940
59 Colorado.....	1,548	32,890	71	1,736	13	342	289	2,651	193	3,167
60 New Mexico.....	250	4,476	3	9	2	(x)	13	90	3	12
61 Arizona.....	348	10,550	9	19	2	(x)	35	338	5	53
62 Utah.....	651	15,601	16	192	6	14	98	1,605	26	854
63 Nevada.....	123	2,200	6	30			18	88	3	27
64 PACIFIC:										
65 Washington.....	3,672	114,830	148	5,142	24	97	816	16,256	94	3,878
66 Oregon.....	2,463	65,505	93	2,820	11	45	419	4,800	43	487
67 California.....	12,019	290,911	334	7,563	65	1,253	3,618	67,552	448	13,375

MANUFACTURES

815

ERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY DIVISIONS AND STATES: 1929

according to the customary hours of labor in that establishment even though a few employees may have wage earners are classified under the appropriate heads, according to the numbers of hours the plants were in disclosing data for individual establishments, it has been combined with that for another group. In such with which it has been consolidated is printed in italics. The figures for the geographic divisions have for each establishment are included in the item for the proper group, and therefore these totals differ

48 HOURS		OVER 48 BUT UNDER 54 HOURS		54 HOURS		OVER 54 BUT UNDER 60 HOURS		60 HOURS AND OVER		HOURS NOT REPORTED		
Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	Estab-lish-ments	Wage earners	
41,217	2,352,296	29,243	2,200,125	14,084	554,592	14,694	1,320,932	23,122	655,177	26,196	88,567	1
5,315	449,347	3,850	289,943	1,848	102,613	813	98,043	633	15,634	821	2,923	2
11,719	722,659	9,425	621,084	3,207	168,088	2,866	263,096	2,798	101,500	6,230	18,217	3
7,240	506,542	9,455	971,546	3,267	132,264	4,138	360,174	6,212	120,246	3,957	9,886	4
3,486	132,929	2,050	95,134	1,944	45,011	963	52,708	3,427	38,646	2,029	5,402	5
2,530	142,200	2,099	113,747	912	27,802	3,113	343,630	3,530	154,436	5,334	25,678	6
952	58,543	934	57,919	443	15,354	1,099	110,290	2,164	95,424	3,141	13,225	7
1,874	60,387	687	29,607	1,013	20,312	790	61,964	2,881	87,053	1,970	6,976	8
1,359	39,684	151	2,609	411	9,939	350	21,514	654	10,780	431	1,003	9
6,742	240,005	592	18,536	1,039	33,209	562	19,513	823	31,458	2,283	5,257	10
259	17,489	175	12,292	506	27,300	53	2,842	106	2,626	253	904	11
205	19,429	282	14,995	205	22,140	33	1,906	51	1,068	166	579	12
92	4,572	156	10,044	230	3,714	51	3,217	59	662	126	535	13
3,763	323,877	1,820	101,132	488	14,723	221	19,317	226	5,797	8	16	14
446	42,287	466	36,824	192	26,014	105	7,510	42	1,218	66	221	15
550	36,693	951	114,656	227	8,722	350	63,251	149	4,263	203	668	16
7,011	330,392	3,943	231,709	1,309	53,233	806	46,202	928	22,800	4,383	12,770	17
1,557	146,281	1,785	105,256	373	16,929	407	34,652	884	9,342	652	1,929	18
3,151	245,980	3,697	284,119	1,525	97,926	1,653	182,242	1,486	69,358	1,195	3,518	19
2,090	168,608	2,781	251,580	763	30,460	1,071	117,641	1,022	24,871	1,228	3,161	20
593	64,048	1,147	122,797	424	15,939	659	53,468	832	19,142	454	1,378	21
2,622	196,636	2,654	201,197	893	28,622	744	66,493	986	23,659	1,605	3,395	22
972	37,628	1,732	298,056	692	45,585	544	55,026	925	27,889	490	1,246	23
963	39,622	1,081	102,916	495	11,654	1,120	57,546	2,447	24,685	280	706	24
949	31,541	515	19,185	419	6,782	203	9,776	795	8,772	442	1,144	25
538	17,277	410	16,032	396	8,614	255	13,703	905	10,332	286	729	26
1,001	51,483	842	52,171	628	21,525	246	18,823	608	9,261	618	1,941	27
121	1,502	9	125	36	147	10	318	109	803	57	123	28
124	1,620	27	314	76	1,123	27	444	166	1,066	156	328	29
303	8,210	117	3,002	165	2,255	95	2,677	355	3,110	177	409	30
450	21,296	130	4,245	224	4,585	127	6,967	489	5,302	293	728	31
62	3,933	92	6,724	29	3,129	54	5,346	80	2,694	78	255	32
469	34,966	561	30,768	147	4,454	283	14,684	315	7,174	534	1,755	33
187	5,431	16	310	14	132	20	391	30	391	19	59	34
376	23,852	396	22,190	154	4,214	461	36,040	515	11,561	953	3,550	35
317	22,547	143	10,734	169	4,243	150	22,982	278	15,273	271	933	36
209	17,444	267	15,477	92	2,269	1,053	121,605	789	41,193	1,207	4,807	37
121	3,997	84	3,156	52	1,025	410	82,100	327	13,255	525	3,196	38
393	14,839	383	19,138	136	3,585	604	52,714	768	42,708	1,216	3,532	39
396	15,191	157	5,250	138	4,751	148	7,168	478	20,182	533	3,591	40
291	18,677	322	20,162	130	4,139	236	19,814	351	6,411	593	1,779	41
270	21,969	345	25,601	133	5,441	418	48,777	535	14,753	802	2,759	42
237	14,202	186	9,842	88	3,744	308	38,076	714	44,577	999	5,218	43
154	3,695	81	2,314	92	2,030	137	8,623	564	29,683	746	3,469	44
156	5,248	88	3,722	123	3,120	120	8,579	561	18,665	554	2,436	45
290	15,123	150	10,470	140	4,467	159	10,974	563	35,322	272	1,266	46
388	7,167	101	2,296	174	3,096	116	8,570	471	6,554	220	650	47
1,040	32,849	348	13,119	576	9,629	395	33,841	1,286	20,212	824	2,624	48
253	6,920	9	81	73	2,224	50	3,985	67	424	54	106	49
209	6,128	15	145	78	4,005	32	764	145	1,059	43	87	50
76	2,350	12	195	22	425	31	1,371	37	729	41	81	51
325	13,411	72	1,503	133	1,868	83	4,964	203	2,840	166	408	52
78	1,939	4	41	18	196	15	396	71	1,668	43	125	53
115	1,803	10	40	24	277	55	5,198	53	2,670	40	102	54
255	6,754	26	547	54	901	61	3,282	73	1,372	36	80	55
48	379	3	57	9	43	23	1,544	5	18	8	14	56
1,729	77,346	45	1,533	189	2,459	90	3,613	185	3,651	352	855	57
1,366	45,975	50	1,083	121	3,728	84	1,465	173	4,846	103	258	58
3,647	116,684	497	15,920	729	27,022	388	14,435	465	22,961	1,828	4,146	59

TABLE 20.—HOURS OF LABOR—NUMBER OF ESTABLISHMENTS AND OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, BY NUMBER OF WAGE EARNERS: 1929

[The average number of wage earners employed during the year in each establishment is classified as a total according to the customary hours of labor in that establishment, even though a few employees may have worked a larger or a smaller number of hours]

HOURS OF LABOR PER WEEK	Total	No wage earners	1 to 5 wage earners	6 to 20 wage earners	21 to 50 wage earners	51 to 100 wage earners	101 to 250 wage earners	251 to 500 wage earners	501 to 1,000 wage earners	1,001 wage earners and over
All classes, total:										
Establishments.....	210,959	7,426	95,767	53,524	25,022	12,467	10,195	3,840	1,722	996
Wage earners (average for the year).....	8,838,743	279,734	595,708	814,465	891,671	1,589,040	1,331,145	1,176,991	2,159,989	
Hours not reported—										
Establishments.....	26,196	30	26,165	1						
Wage earners.....	88,567	88,547	20							
Under 40 hours—										
Establishments.....	3,333	604	1,750	593	244	87	36	12	5	2
Wage earners.....	39,946	3,607	6,478	7,783	6,078	5,229	4,454	3,868	2,449	
40 hours—										
Establishments.....	8,488	276	3,283	3,226	1,112	288	166	59	45	33
Wage earners.....	246,739	9,061	36,484	34,699	20,176	25,460	20,463	31,965	68,431	
Over 40 but under 44 hours—										
Establishments.....	1,919	182	717	426	195	84	281	21	8	5
Wage earners.....	83,614	1,807	4,779	6,330	6,085	41,659	7,286	5,087	9,981	
44 hours and over but under 45—										
Establishments.....	38,350	3,256	15,444	12,315	4,649	1,600	667	261	104	54
Wage earners.....	811,216	43,068	136,316	147,624	112,599	102,363	89,554	67,823	111,809	
45 hours and over but under 48—										
Establishments.....	10,313	133	3,007	3,721	1,743	831	575	181	71	51
Wage earners.....	485,539	9,069	41,925	57,132	59,451	88,221	63,297	47,558	118,886	
48 hours—										
Establishments.....	41,217	1,226	17,245	10,858	5,041	2,700	2,337	975	501	334
Wage earners.....	2,352,296	46,611	117,985	164,727	193,202	366,293	339,313	347,012	777,153	
Over 48 but under 54 hours—										
Establishments.....	29,243	210	7,082	8,816	5,453	3,178	2,786	1,033	439	246
Wage earners.....	2,200,125	22,090	101,763	180,637	227,688	433,165	357,586	302,259	574,937	
54 hours—										
Establishments.....	14,084	268	6,220	3,801	1,715	938	763	224	102	53
Wage earners.....	554,592	17,059	41,117	55,985	66,879	118,671	78,488	69,488	106,905	
Over 54 but under 60 hours—										
Establishments.....	14,694	233	3,711	3,817	2,372	1,667	1,655	721	340	178
Wage earners.....	1,320,932	10,190	43,903	79,163	121,128	265,630	251,981	228,118	320,819	
60 hours and over—										
Establishments.....	23,122	1,008	11,143	5,950	2,498	1,094	929	353	107	40
Wage earners.....	655,177	28,625	64,938	80,385	78,385	142,349	118,723	73,213	68,559	

TABLE 21.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP AND TYPE OF OPERATION, FOR ALL INDUSTRIES: 1929 AND 1919

[The figures for 1919 cover all establishments reporting products valued at \$500 or more, whereas the corresponding limit for 1929 was \$5,000. (See Establishments covered—Size, p. 738.) The 1919 figures also include data for the automobile-repairing industry, which was not canvassed at the manufactures census for 1929]

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	NUMBER OF ESTABLISHMENTS		WAGE EARNERS (AVERAGE FOR THE YEAR)	
	1929	1919	1929	1919
Total.....	210,959	290,105	8,838,743	9,090,372
Corporate ownership or control.....	101,815	91,517	7,945,478	7,875,132
Central-administrative-office (plural-unit).....	24,461	(1)	4,203,478	(1)
Independent (single-unit).....	77,354	(1)	3,742,000	(1)
Other forms of ownership or control (individual, partnership, etc.).....	109,144	198,588	893,265	1,221,240
Central-administrative-office (plural-unit).....	1,825	(1)	71,899	(1)
Independent (single-unit).....	107,319	(1)	821,366	(1)

<sup>1</sup> No data for 1919.

TABLE 21.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP AND TYPE OF OPERATION, FOR ALL INDUSTRIES: 1929 AND 1919—CON.

TYPE OF OWNERSHIP OR CONTROL, AND OF OPERATION	VALUE OF PRODUCTS		VALUE ADDED BY MANUFACTURE, 1929 <sup>1</sup>
	1929	1919	
Total.....	\$70,434,863,443	\$62,418,078,773	\$31,885,283,711
Corporate ownership or control.....	64,900,690,398	54,744,392,855	29,174,714,978
Central-administrative-office (plural-unit).....	37,790,066,617	(1)	15,606,772,499
Independent (single-unit).....	27,110,623,781	(1)	13,567,942,479
Other forms of ownership or control (individual, partnership, etc.).....	5,534,173,045	7,673,685,918	2,710,568,733
Central-administrative-office (plural-unit).....	436,320,984	(1)	190,517,159
Independent (single-unit).....	5,097,852,061	(1)	2,520,051,574

<sup>1</sup> No data for 1919.

TABLE 22.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929

[For use of "x" and italic figures, see headnote, Table 14]

INDUSTRY	NUMBER OF ESTABLISHMENTS OWNED BY—		WAGE EARNERS (AVERAGE FOR THE YEAR) IN ESTABLISHMENTS OWNED BY—		VALUE OF PRODUCTS OF ESTABLISHMENTS OWNED BY—	
	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.
All industries.....	101,815	109,144	7,945,478	893,265	\$64,900,690,398	\$5,534,173,045
<i>Industries reporting 5,000 or more wage earners</i>						
Agricultural implements.....	196	97	40,981	682	274,271,449	3,583,013
Aircraft and parts.....	120	12	14,567	143	70,528,889	624,535
Aluminum manufactures.....	105	45	20,867	343	151,492,055	1,965,193
Ammunition and related products.....	19	2	7,223	(x)	48,808,620	(x)
Asbestos products, other than steam packing and pipe and boiler covering.....	57	10	7,728	364	53,599,694	2,564,342
Awnings, tents, sails, and canvas covers.....	309	693	4,287	2,875	31,445,003	17,792,573
Bags, other than paper, not made in textile mills.....	125	77	10,633	1,195	157,983,346	12,192,547
Bags, paper, exclusive of those made in paper mills.....	81	14	6,556	414	59,592,448	5,028,744
Baskets and rattan and willow ware, not including furniture.....	139	134	6,945	2,408	17,168,733	5,682,310
Beverages.....	1,718	3,436	18,742	9,539	194,027,016	76,296,787
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	101	16	15,911	264	100,649,608	1,742,491
Bookbinding and blank-book making.....	460	648	19,505	5,249	84,785,902	17,997,503
Boot and shoe cut stock, not made in boot and shoe factories.....	100	110	8,177	1,322	117,265,279	16,182,635
Boot and shoe findings, not made in boot and shoe factories.....	218	164	8,399	1,977	45,336,678	13,288,767
Boots and shoes, other than rubber.....	1,017	324	192,534	13,106	912,220,402	53,702,292
Boots and shoes, rubber.....	22	—	25,659	—	102,537,625	—
Boxes, paper, not elsewhere classified.....	926	323	49,100	6,554	269,351,939	24,901,357
Boxes, wooden, except cigar boxes.....	456	306	26,156	4,398	117,173,494	17,852,181
Bread and other bakery products.....	3,021	17,764	128,821	74,020	1,029,541,293	496,569,518
Brushes, other than rubber.....	150	153	5,989	1,272	36,875,442	8,673,828
Butter.....	2,358	1,169	16,085	3,012	625,928,630	120,488,990
Buttons.....	116	126	7,068	1,966	22,637,787	6,340,132
Canning and preserving: Fish, crabs, shrimps, oysters, and clams.....	243	105	12,075	1,537	75,025,621	5,822,892
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	1,639	1,358	85,056	13,810	684,437,209	65,904,832
Cars and general construction and repairs, electric-railroad repair shops.....	435	11	28,556	919	82,720,544	2,761,033

TABLE 22.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued  
 [For use of "x" and italic figures, see headnote, Table 14]

INDUSTRY	NUMBER OF ESTABLISHMENTS OWNED BY—		WAGE EARNERS (AVERAGE FOR THE YEAR) IN ESTABLISHMENTS OWNED BY—		VALUE OF PRODUCTS OF ESTABLISHMENTS OWNED BY—	
	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.
<i>Industries reporting 5,000 or more wage earners—Continued</i>						
Cars and general construction and repairs, steam-railroad repair shops	1,844	7	368,148	533	\$1,182,706,374	\$1,728,888
Carpets and rugs, wool, other than rag	55	12	30,606	2,017	165,205,120	11,710,244
Carriages and sleds, children's	62	17	6,804	298	27,472,985	1,344,875
Cars, electric and steam railroad, not built in railroad repair shops	144	3	30,822	193	326,319,783	1,900,421
Cash registers and adding, calculating, and card-tabulating machines	37	9	16,803	37	109,837,840	163,146
Caskets, coffins, burial cases, and other morticians' goods	283	131	11,715	1,318	80,388,725	7,893,147
Cast-iron pipe	67	5	19,213	528	78,812,417	1,448,133
Cement	156	18	28,831	4,537	235,871,262	31,637,098
Cereal preparations	79	42	6,314	174	170,230,036	4,909,090
Chemicals, not elsewhere classified	515	36	60,904	1,295	722,377,298	15,071,088
Chocolate and cocoa products, not including confectionery	54	5	6,098	151	117,670,452	1,870,241
Cigars and cigarettes	414	1,222	90,665	14,643	1,022,198,805	44,710,088
Clay products (other than pottery) and nonclay refractories	1,318	431	86,258	7,078	276,417,400	18,517,113
Clocks, clock movements, time-recording devices, and time stamps	51	5	10,385	16	42,032,275	133,600
Clothing (except work clothing), men's youths', and boys', not elsewhere classified	1,113	2,578	101,618	48,250	598,787,813	302,316,392
Clothing, women's, not elsewhere classified	3,113	4,969	100,816	86,684	1,009,315,417	700,265,088
Clothing, work (including sheep-lined and blanket-lined work coats but not including shirts), men's	310	201	31,094	7,107	111,963,175	26,486,003
Coffee and spice, roasting and grinding	611	317	7,956	1,097	387,267,801	37,076,946
Coke, not including gas-house coke	150	3	20,445	107	415,842,765	505,603
Concrete products	1,064	1,374	11,580	4,925	69,017,161	23,883,588
Condensed and evaporated milk	486	49	6,857	208	204,153,855	4,955,845
Confectionery	946	1,075	54,659	8,842	345,032,644	48,237,205
Cooperage	312	274	9,155	1,536	55,108,274	9,733,514
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified	913	1,248	21,350	7,243	178,863,158	43,621,467
Cordage and twine	108	15	13,887	602	89,519,660	1,935,457
Corn sirup, corn sugar, corn oil, and starch	19	16	6,659	71	165,479,952	503,787
Corsets and allied garments	139	74	12,291	1,373	69,186,461	7,615,738
Cotton goods	1,187	94	419,295	5,621	1,503,219,132	20,957,955
Cotton small wares	140	62	14,035	1,246	59,287,257	5,882,496
Cutlery (not including silver and plated cutlery) and edge tools	154	85	14,188	803	75,134,482	3,526,390
Dairymen's supplies; creamery, cheese-factory, and butter-factory equipment; poultrymen's and apiarists' supplies	97	75	4,651	799	36,188,413	6,058,345
Doors, shutters, and window sash and frames, metal	118	30	9,139	418	69,736,555	2,423,833
Druggists' preparations	302	127	10,018	670	117,702,331	7,076,156
Dyeing and finishing textiles	581	151	75,573	3,754	447,910,823	17,909,806
Electrical machinery, apparatus, and supplies	1,409	393	324,883	3,839	2,278,192,801	22,722,771
Electroplating	184	350	3,825	2,103	15,138,808	8,589,108
Embroideries	160	653	2,514	4,308	9,175,167	16,111,629
Engines, turbines, tractors, and water wheels	179	20	60,918	230	455,899,588	1,318,081
Engraving, steel and copperplate, and plate printing	193	263	8,321	1,809	39,686,555	7,475,086
Envelopes	145	26	9,844	523	58,283,402	3,023,590
Explosives	88	7	5,575	39	72,104,026	435,098
Fancy and miscellaneous articles, not elsewhere classified	366	448	12,993	5,729	61,873,126	23,515,835
Feeds, prepared, for animals and fowls	468	282	9,268	955	376,102,006	26,650,528
Felt goods, wool, hair, or jute	49	5	5,033	507	42,133,362	3,332,461



TABLE 22.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

[For use of "x" and italic figures, see headnote, Table 14]

INDUSTRY	NUMBER OF ESTABLISHMENTS OWNED BY—		WAGE EARNERS (AVERAGE FOR THE YEAR) IN ESTABLISHMENTS OWNED BY—		VALUE OF PRODUCTS OF ESTABLISHMENTS OWNED BY—	
	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.
<i>Industries reporting 5,000 or more wage earners—Continued</i>						
Fertilizers.....	537	101	20, 197	729	\$224, 115, 167	\$8, 395, 769
Firearms.....	17	4	6, 800	38	21, 845, 448	124, 919
Flavoring extracts and flavoring sirups.....	386	256	4, 430	611	121, 040, 597	8, 045, 640
Flour and other grain-mill products.....	1, 310	2, 712	22, 894	4, 134	960, 753, 911	99, 515, 507
Food preparations, not elsewhere classified.....	400	462	8, 824	1, 792	152, 167, 900	19, 693, 087
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	184	34	20, 153	729	150, 746, 030	5, 502, 917
Foundry and machine-shop products, not elsewhere classified.....	5, 644	2, 961	429, 241	25, 200	2, 660, 461, 599	131, 000, 365
Fur goods.....	726	2, 129	6, 438	9, 314	99, 808, 560	177, 784, 192
Furnishing goods, men's, not elsewhere classified.....	277	321	20, 016	6, 572	104, 588, 946	46, 374, 657
Furniture, including store and office fixtures.....	2, 381	1, 397	175, 176	18, 223	853, 159, 942	94, 956, 416
Furs, dressed.....	144	104	4, 465	702	31, 431, 999	8, 805, 193
Gas and electric fixtures; lamps, lanterns, and reflectors.....	397	217	21, 593	1, 987	131, 398, 956	13, 566, 750
Gas machines, gas meters, and water and other liquid meters.....	65	7	6, 067	34	40, 368, 235	255, 109
Gas, manufactured, illuminating and heating.....	703	51	42, 158	907	503, 115, 710	9, 536, 885
Glass.....	243	20	65, 443	2, 084	297, 868, 010	5, 950, 550
Glass products (except mirrors) made from purchased glass.....	167	264	4, 063	1, 966	23, 396, 647	9, 876, 356
Gloves and mittens, cloth or cloth and leather combined, made from purchased fabrics.....	80	45	8, 376	903	26, 787, 432	3, 095, 526
Gloves and mittens, leather.....	103	154	5, 977	3, 226	25, 402, 498	13, 720, 231
Grease and tallow, not including lubricating greases.....	166	131	4, 726	749	53, 212, 070	8, 395, 920
Handkerchiefs.....	59	46	4, 819	1, 195	22, 611, 068	6, 942, 709
Hardware not elsewhere classified.....	347	138	48, 492	3, 814	213, 884, 804	15, 592, 703
Hats and caps, except felt and straw, men's.....	171	405	2, 830	2, 996	16, 885, 056	19, 015, 608
Hats, fur-felt.....	108	51	15, 664	875	96, 632, 066	5, 352, 099
House-furnishing goods, not elsewhere classified.....	445	519	10, 790	5, 004	87, 487, 986	40, 114, 016
Ice cream.....	1, 456	1, 694	18, 368	4, 031	278, 955, 503	49, 458, 408
Ice, manufactured.....	2, 890	1, 220	26, 823	5, 361	187, 795, 991	28, 156, 273
Instruments, professional and scientific.....	179	97	15, 965	911	84, 979, 263	4, 767, 106
Iron and steel:						
Blast furnaces.....	105		24, 960		771, 425, 464	
Steel works and rolling mills.....	475	11	393, 494	1, 080	3, 359, 575, 637	6, 213, 108
Jewelry.....	577	959	19, 725	8, 197	123, 301, 013	54, 085, 919
Knit goods.....	1, 303	585	190, 762	17, 726	815, 919, 233	83, 797, 439
Lace goods.....	34	8	6, 644	210	28, 571, 822	665, 612
Leather goods, not elsewhere classified.....	159	233	4, 146	1, 889	24, 220, 795	11, 730, 218
Leather: Tanned, curried, and finished.....	405	66	48, 453	1, 479	470, 319, 822	11, 020, 477
Lime.....	179	58	7, 579	975	33, 231, 545	2, 583, 813
Linoleum.....	7		5, 844		57, 250, 449	
Lithographing.....	307	69	18, 085	894	116, 146, 789	4, 867, 532
Locomotives, not made in railroad repair shops.....	13	3	11, 008	37	83, 558, 072	300, 186
Lumber and timber products, not elsewhere classified.....	2, 428	10, 487	326, 480	92, 604	1, 064, 278, 713	209, 193, 607
Macaroni, spaghetti, vermicelli, and noodles.....	132	221	4, 010	1, 062	37, 603, 047	9, 471, 188
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	420	302	23, 127	3, 555	127, 110, 637	17, 300, 253
Machine tools.....	242	38	46, 470	921	239, 790, 006	4, 788, 082
Marble, granite, slate, and other stone products.....	833	1, 048	29, 190	8, 627	147, 787, 690	44, 376, 226

TABLE 22.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—  
Continued

[For use of "x" and italic figures, see headnote, Table 14]

INDUSTRY	NUMBER OF ESTABLISHMENTS OWNED BY—		WAGE EARNERS (AVERAGE FOR THE YEAR) IN ESTABLISHMENTS OWNED BY—		VALUE OF PRODUCTS OF ESTABLISHMENTS OWNED BY—	
	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.	Corporations	Individuals partnerships etc.
<i>Industries reporting 5,000 or more wage earners—Continued</i>						
Mattresses and bed springs, not elsewhere classified.....	413	538	14, 216	2, 971	\$101, 538, 508	\$21, 741, 200
Meat packing, wholesale.....	731	546	118, 228	4, 277	3, 288, 863, 852	145, 790, 246
Millinery.....	779	514	23, 234	8, 972	140, 233, 829	55, 459, 628
Models and patterns, not including paper patterns.....	193	611	3, 147	3, 631	14, 591, 940	16, 029, 134
Motion pictures, not including projection in theaters.....	106	36	10, 658	126	182, 895, 337	1, 207, 082
Motor-vehicle bodies and motor-vehicle parts.....	758	396	217, 888	3, 444	1, 521, 075, 416	16, 854, 377
Motor vehicles, not including motorcycles.....	217	27	225, 820	296	3, 719, 386, 462	3, 406, 812
Musical instruments: Pianos.....	73	8	9, 707	263	41, 507, 828	993, 547
Needles, pins, hooks and eyes, and snap fasteners.....	36	7	6, 184	58	21, 871, 088	159, 862
Nonferrous-metal alloys and products, not including aluminum products.....	763	462	75, 868	3, 315	881, 925, 587	27, 878, 463
Oil, cake, and meal, cottonseed.....	513	40	14, 956	869	277, 522, 465	20, 883, 574
Optical goods.....	70	47	9, 126	575	37, 282, 831	3, 279, 628
Paints and varnishes.....	879	184	28, 129	1, 082	548, 963, 361	20, 012, 477
Paper.....	656	29	102, 367	953	959, 172, 595	8, 013, 431
Paper goods, not elsewhere classified.....	336	100	19, 143	1, 084	174, 594, 982	8, 052, 730
Patent or proprietary medicines and compounds.....	1, 046	476	14, 726	1, 708	297, 734, 617	21, 172, 311
Peanuts, walnuts, and other nuts, processed or shelled.....	117	52	6, 705	1, 228	41, 578, 812	8, 080, 082
Pencils, lead (including mechanical).....	34	4	5, 629	74	27, 491, 074	281, 881
Perfumes, cosmetics, and other toilet preparations.....	536	279	12, 029	1, 080	182, 180, 396	11, 260, 154
Petroleum refining.....	373	17	80, 295	301	2, 632, 831, 308	6, 833, 603
Phonographs.....	53	6	14, 345	71	96, 485, 893	363, 155
Photo-engraving, not done in printing establishments.....	470	184	10, 840	1, 513	68, 834, 227	8, 548, 032
Photographic apparatus and materials.....	74	41	12, 662	305	101, 107, 940	1, 719, 446
Planing-mill products (including general millwork), not made in planing mills connected with sawmills.....	2, 692	2, 157	73, 966	16, 168	456, 727, 991	96, 855, 507
Plated ware.....	77	19	10, 335	393	53, 459, 833	1, 970, 126
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	212	43	27, 462	498	126, 367, 152	3, 306, 032
Pocketbooks, purses, and cardcases.....	172	118	7, 971	2, 459	51, 599, 166	17, 028, 349
Pottery, including porcelain ware.....	239	74	33, 828	1, 581	105, 686, 709	4, 935, 744
Poultry killing, dressing, and packing, wholesale.....	335	150	6, 494	1, 275	105, 357, 610	24, 808, 020
Printing and publishing, book and job.....	4, 914	7, 798	118, 000	32, 649	805, 493, 101	201, 163, 667
Printing and publishing, newspaper and periodical.....	4, 801	6, 723	105, 805	23, 855	1, 571, 323, 566	166, 975, 326
Pulp (wood and other fiber).....	192	6	24, 421	308	236, 720, 522	2, 207, 757
Pumps (hand and power) and pumping equipment.....	232	90	22, 097	1, 009	157, 868, 780	6, 140, 617
Rayon and allied products.....	28	1	<i>39, 106</i>	(x)	<i>149, 546, 107</i>	(x)
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	124	64	9, 124	660	55, 618, 034	4, 865, 280
Refrigerators, mechanical.....	32	2	<i>16, 883</i>	(x)	<i>161, 565, 676</i>	(x)
Roofing, built-up and roll; asphalt shingles; roof coatings other than paint.....	88	14	5, 946	81	102, 449, 960	1, 056, 130
Rubber goods other than tires, inner tubes, and boots and shoes.....	325	87	38, 076	2, 150	229, 437, 269	15, 308, 468
Rubber tires and inner tubes.....	83	8	83, 058	205	788, 386, 193	1, 790, 697
Salt.....	53	5	5, 337	121	37, 315, 567	553, 130
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	224	457	3, 925	1, 972	70, 265, 921	37, 980, 273
Screw-machine products and wood screws.....	194	79	18, 582	1, 299	98, 594, 268	7, 380, 394
Sewing machines and attachments.....	24	15	10, 429	38	44, 735, 674	308, 926
Ship and boat building, steel and wooden, including repair work.....	332	292	52, 084	3, 005	218, 742, 938	12, 557, 227

TABLE 22.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP, FOR INDUSTRIES REPORTING 5,000 OR MORE WAGE EARNERS: 1929—Continued

[For use of "x" and italic figures, see headnote, Table 14]

INDUSTRY	NUMBER OF ESTABLISHMENTS OWNED BY—		WAGE EARNERS (AVERAGE FOR THE YEAR) IN ESTABLISHMENTS OWNED BY—		VALUE OF PRODUCTS OF ESTABLISHMENTS OWNED BY—	
	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.
<i>Industries reporting 5,000 or more wage earners—Continued</i>						
Shirts.....	459	404	44,008	15,822	\$163,955,891	\$64,365,725
Signs and advertising novelties.....	564	675	16,282	3,718	97,541,060	20,508,097
Silk and rayon manufactures.....	995	496	117,908	12,564	648,653,173	82,547,058
Silversmithing and silverware.....	52	31	4,722	285	28,513,984	1,988,382
Smelting and refining, copper.....	26	-----	14,544	-----	994,783,862	-----
Smelting and refining, zinc.....	30	-----	11,618	-----	118,801,070	-----
Soap.....	203	79	14,093	270	307,377,050	2,814,480
Sporting and athletic goods, not including firearms or ammunition.....	150	92	9,847	946	54,598,369	3,690,359
Springs, steel, except wire, not made in plants operated in connection with rolling mills.....	71	15	5,763	79	46,279,034	393,285
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	442	140	38,435	1,565	197,575,456	6,730,678
Stationery goods, not elsewhere classified.....	152	51	10,494	584	71,134,868	2,927,179
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	119	52	6,936	330	43,164,702	2,268,433
Steam fittings and steam and hot-water heating apparatus.....	208	32	39,205	416	225,141,648	3,168,606
Stereotyping and electrotyping, not done in printing establishments.....	175	55	5,809	678	31,965,391	3,651,906
Stoves and ranges (other than electric) and warm-air furnaces.....	471	138	44,391	2,225	260,422,330	11,324,679
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	923	559	49,743	5,204	440,818,418	36,218,409
Sugar, beet.....	82	-----	7,496	-----	108,552,581	-----
Sugar refining, cane.....	19	2	<i>13,912</i>	(x)	<i>507,889,262</i>	(x)
Surgical and orthopedic appliances, including artificial limbs.....	173	190	7,079	831	66,704,459	4,902,660
Textile machinery and parts.....	211	165	25,276	1,743	114,776,709	7,661,805
Tin cans and other tinware, not elsewhere classified.....	152	40	30,942	555	294,547,834	2,353,592
Tobacco: Chewing and smoking, and snuff.....	60	92	10,225	586	174,828,866	4,504,085
Tools, not including edge tools, machine tools, files, or saws.....	281	253	17,719	1,586	90,082,324	9,379,708
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	278	198	13,506	3,154	59,884,689	14,944,292
Trimmings (not made in textile mills) and stamped art goods for embroidering.....	217	422	4,732	3,202	29,648,905	15,531,028
Trunks, suitcases, and bags.....	231	236	9,292	2,067	50,926,017	13,042,912
Turpentine and rosin.....	116	1,067	8,190	31,967	7,899,981	28,281,651
Typewriters and parts.....	25	1	<i>16,945</i>	(x)	<i>61,857,615</i>	(x)
Wall plaster, wall board, insulating board, and floor composition.....	192	44	6,972	490	67,499,034	3,163,712
Washing machines, wringers, driers, and ironing machines, for household use.....	55	10	7,989	200	79,913,698	2,411,226
Watches and watch movements.....	8	-----	10,738	-----	34,370,399	-----
Wire, drawn from purchased bars or rods.....	78	3	22,259	208	213,194,574	802,836
Wirework, not elsewhere classified.....	325	222	20,986	1,402	139,709,087	7,095,962
Wood preserving.....	189	10	12,942	135	188,896,120	2,048,525
Wood turned and shaped and other wooden goods, not elsewhere classified.....	420	474	13,501	5,211	52,330,179	17,289,811
Woolen goods.....	372	88	54,562	3,912	274,623,028	16,315,921
Worsted goods.....	231	33	83,298	5,187	507,554,710	28,512,689
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	46	4	11,086	331	122,082,257	2,576,709

TABLE 23.—SUMMARY FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OWNERSHIP, BY DIVISIONS AND STATES: 1929

DIVISION AND STATE	NUMBER OF ESTABLISHMENTS OWNED BY—		WAGE EARNERS (AVERAGE FOR THE YEAR) IN ESTABLISHMENTS OWNED BY—		VALUE OF PRODUCTS OF ESTABLISHMENTS OWNED BY—	
	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.	Corporations	Individuals, partnerships, etc.
United States.....	101, 815	109, 144	7, 945, 478	893, 265	\$64, 900, 690, 398	\$5, 534, 173, 045
<b>GEOGRAPHIC DIVISIONS:</b>						
New England.....	9, 788	8, 484	1, 007, 074	91, 440	5, 925, 924, 970	472, 289, 715
Middle Atlantic.....	30, 658	34, 072	2, 233, 078	329, 262	18, 887, 092, 557	2, 472, 481, 418
East North Central.....	25, 048	21, 348	2, 404, 560	137, 616	20, 714, 092, 415	949, 196, 626
West North Central.....	8, 873	8, 919	430, 243	43, 872	5, 048, 315, 666	329, 067, 318
South Atlantic.....	8, 733	12, 127	785, 212	127, 035	4, 848, 827, 424	420, 449, 001
East South Central.....	3, 953	5, 907	327, 904	49, 966	1, 834, 554, 173	179, 888, 985
West South Central.....	4, 978	5, 598	257, 474	40, 269	2, 587, 624, 059	214, 467, 754
Mountain.....	2, 176	2, 143	92, 999	9, 493	1, 177, 233, 498	62, 677, 600
Pacific.....	7, 608	10, 546	406, 934	64, 312	3, 877, 025, 636	433, 654, 868
<b>NEW ENGLAND:</b>						
Maine.....	779	789	63, 484	6, 675	364, 900, 284	26, 851, 050
New Hampshire.....	476	599	55, 631	9, 380	290, 776, 270	41, 758, 453
Vermont.....	425	502	22, 428	4, 993	121, 698, 012	21, 924, 535
Massachusetts.....	5, 319	4, 553	510, 393	47, 101	3, 118, 480, 833	273, 681, 404
Rhode Island.....	943	758	116, 190	9, 873	619, 894, 241	46, 473, 909
Connecticut.....	1, 846	1, 283	238, 948	12, 913	1, 410, 275, 330	61, 600, 274
<b>MIDDLE ATLANTIC:</b>						
New York.....	18, 246	21, 149	920, 043	185, 923	8, 294, 585, 116	1, 683, 971, 027
New Jersey.....	4, 458	3, 930	402, 816	39, 512	3, 718, 634, 443	219, 072, 332
Pennsylvania.....	7, 954	8, 993	910, 219	103, 827	6, 874, 422, 998	569, 438, 059
<b>EAST NORTH CENTRAL:</b>						
Ohio.....	6, 784	5, 071	704, 505	36, 638	5, 799, 974, 837	227, 928, 300
Indiana.....	2, 950	2, 141	298, 896	15, 802	2, 448, 805, 641	91, 088, 208
Illinois.....	8, 041	7, 292	644, 427	47, 128	5, 957, 684, 508	324, 407, 732
Michigan.....	3, 569	3, 117	506, 650	23, 385	4, 478, 307, 609	178, 410, 437
Wisconsin.....	3, 704	3, 727	250, 082	14, 663	2, 029, 319, 820	127, 361, 949
<b>WEST NORTH CENTRAL:</b>						
Minnesota.....	2, 396	1, 919	94, 240	9, 174	1, 099, 486, 202	73, 727, 404
Iowa.....	1, 634	1, 683	73, 284	8, 394	828, 566, 573	69, 646, 099
Missouri.....	3, 062	2, 703	188, 198	14, 681	1, 827, 697, 399	89, 457, 876
North Dakota.....	181	192	3, 472	552	50, 290, 086	5, 031, 506
South Dakota.....	201	414	5, 273	1, 262	88, 067, 802	9, 629, 834
Nebraska.....	625	866	24, 448	3, 764	453, 060, 990	31, 107, 419
Kansas.....	774	1, 142	41, 328	6, 045	701, 146, 614	50, 466, 580
<b>SOUTH ATLANTIC:</b>						
Delaware.....	216	244	21, 371	2, 181	139, 550, 147	10, 091, 895
Maryland.....	1, 855	1, 876	110, 925	20, 174	1, 007, 994, 680	111, 057, 609
District of Columbia.....	260	287	7, 836	1, 916	76, 707, 594	12, 265, 291
Virginia.....	1, 301	1, 986	107, 725	12, 548	689, 711, 023	56, 199, 052
West Virginia.....	819	669	80, 489	4, 837	493, 097, 110	19, 915, 190
North Carolina.....	1, 673	2, 124	190, 024	19, 802	1, 240, 867, 498	71, 056, 854
South Carolina.....	720	939	99, 178	9, 599	361, 669, 918	24, 222, 334
Georgia.....	1, 454	2, 725	121, 711	37, 063	645, 273, 984	77, 179, 819
Florida.....	935	1, 277	45, 953	18, 915	193, 955, 470	38, 430, 957
<b>EAST SOUTH CENTRAL:</b>						
Kentucky.....	1, 054	1, 192	71, 433	6, 392	469, 693, 405	32, 945, 817
Tennessee.....	1, 281	1, 574	115, 274	13, 126	673, 353, 597	57, 155, 015
Alabama.....	1, 011	1, 837	100, 800	18, 759	505, 238, 171	55, 139, 961
Mississippi.....	607	1, 304	40, 397	11, 689	186, 269, 000	34, 648, 662
<b>WEST SOUTH CENTRAL:</b>						
Arkansas.....	599	1, 132	34, 687	9, 518	179, 010, 461	31, 892, 767
Louisiana.....	1, 111	878	79, 351	7, 994	640, 727, 282	44, 309, 575
Oklahoma.....	794	864	27, 360	4, 335	426, 126, 059	29, 779, 238
Texas.....	2, 474	2, 724	116, 076	18, 422	1, 341, 760, 257	108, 486, 174
<b>MOUNTAIN:</b>						
Montana.....	269	320	13, 436	1, 433	262, 597, 564	8, 496, 882
Idaho.....	267	295	14, 288	1, 360	87, 195, 194	9, 156, 832
Wyoming.....	121	127	5, 872	386	93, 625, 661	2, 722, 415
Colorado.....	811	737	29, 527	3, 363	285, 317, 859	20, 753, 142
New Mexico.....	99	151	3, 857	619	18, 584, 795	3, 112, 353
Arizona.....	166	182	9, 599	951	193, 428, 134	6, 574, 083
Utah.....	379	272	14, 433	1, 168	204, 828, 480	9, 800, 375
Nevada.....	64	59	1, 987	213	31, 655, 781	2, 061, 273
<b>PACIFIC:</b>						
Washington.....	1, 872	1, 800	104, 816	10, 014	740, 908, 431	54, 653, 430
Oregon.....	1, 133	1, 330	57, 965	7, 540	372, 647, 551	39, 121, 424
California.....	4, 603	7, 416	244, 153	46, 758	2, 763, 469, 654	339, 880, 014

TABLE 24.—POWER EQUIPMENT, BY TYPE, NUMBER, AND RATED CAPACITY:  
1899 TO 1929

[No data in regard to power equipment were collected at the census for 1921]

TYPE	1929	1927	1925	1923	1919 <sup>1 2</sup>
Number of establishments, total.....	210, 959	191, 866	187, 390	196, 309	274, 598
Number of establishments reporting power equipment.....	193, 969	174, 118	167, 649	173, 475	223, 029
Prime movers and electric motors driven by purchased energy, aggregate.....	42, 931, 061	38, 825, 681	35, 772, 628	33, 094, 228	<sup>3</sup> 29,327,669
Prime movers:					
Total number.....	95, 036	93, 640	104, 931	115, 071	166, 962
Total horsepower.....	20, 155, 397	19, 693, 371	19, 903, 800	19, 728, 565	20, 043, 170
Steam engines and turbines—					
Number.....	77, 225	73, 382	82, 176	90, 057	122, 508
Horsepower.....	17, 361, 926	16, 923, 931	16, 916, 856	16, 700, 993	17, 036, 210
Steam engines—					
Number.....	66, 914	64, 507	74, 691	( <sup>4</sup> )	116, 068
Horsepower.....	9, 629, 905	10, 140, 381	11, 434, 388	( <sup>4</sup> )	13, 838, 111
Steam turbines—					
Number.....	10, 311	8, 875	7, 485	( <sup>4</sup> )	6, 440
Horsepower.....	7, 732, 021	6, 783, 550	5, 482, 468	( <sup>4</sup> )	3, 198, 099
Internal-combustion engines—					
Number.....	11, 288	12, 664	14, 362	15, 721	30, 474
Horsepower.....	1, 233, 853	1, 170, 774	1, 186, 116	1, 224, 262	1, 241, 829
Water wheels and water turbines—					
Number.....	6, 523	7, 594	8, 393	9, 293	<sup>5</sup> 13, 980
Horsepower.....	1, 559, 618	1, 598, 666	1, 800, 828	1, 803, 310	<sup>5</sup> 1, 765, 131
Electric motors driven by purchased energy:					
Number.....	2, 724, 843	2, 151, 675	1, 724, 180	1, 445, 003	976, 463
Horsepower.....	22, 775, 664	19, 132, 310	15, 868, 828	13, 365, 663	9, 284, 499
Electric motors:					
Total number.....	3, 577, 275	2, 942, 485	2, 496, 625	2, 061, 425	1, 463, 337
Total horsepower.....	35, 152, 040	30, 352, 289	26, 123, 573	22, 187, 214	16, 253, 702
Driven by purchased energy—					
Number.....	2, 724, 843	2, 151, 675	1, 724, 180	1, 445, 003	976, 463
Horsepower.....	22, 775, 664	19, 132, 310	15, 868, 828	13, 365, 663	9, 284, 499
Driven by energy generated in establishments reporting—					
Number.....	852, 432	790, 810	772, 445	616, 422	486, 874
Horsepower.....	12, 376, 376	11, 219, 979	10, 254, 745	8, 821, 551	6, 969, 203
Electric generators:					
Number.....	17, 270	19, 028	23, 635	( <sup>6</sup> )	( <sup>6</sup> )
Kilowatts.....	7, 793, 875	7, 345, 685	6, 887, 045	( <sup>6</sup> )	( <sup>6</sup> )

<sup>1</sup> The figures for 1919 and earlier years cover all establishments reporting products valued at \$500 or more, whereas the corresponding limit for 1923 and subsequent years was \$5,000.

<sup>2</sup> The figures for 1919 and 1914 have been adjusted by subtracting the data for establishments classified in the "Automobile repairing" industry, which was not canvassed in connection with the censuses of manufactures for any of the other years covered by this table.

<sup>3</sup> These aggregates do not include data for "Rented horsepower other than electric" and therefore differ slightly from the corresponding aggregates given in the reports for 1919 and earlier years as originally published. (See also footnote 2.)

<sup>4</sup> Not reported separately.

<sup>5</sup> Includes data for a relatively small number of water motors.

<sup>6</sup> Not called for on schedule.

TABLE 24.—POWER EQUIPMENT, BY TYPE, NUMBER, AND RATED CAPACITY: 1899 TO 1929—Continued

[See note at head of this table]

TYPE	1914 <sup>1 2</sup>	1909 <sup>1</sup>	1904 <sup>1</sup>	1899 <sup>1</sup>
Number of establishments, total.....	272, 518	268, 491	216, 180	207, 514
Number of establishments reporting power equipment.....	202, 529	185, 042	134, 481	133, 418
Prime movers and electric motors driven by purchased energy, aggregate.....	<sup>3</sup> 22, 290, 899	<sup>3</sup> 18, 551, 737	<sup>3</sup> 13, 296, 394	<sup>3</sup> 9, 960, 980
Prime movers:				
Total number.....	192, 314	209, 163	169, 775	168, 143
Total horsepower.....	18, 406, 175	16, 802, 706	12, 854, 805	9, 778, 418
Steam engines and turbines <sup>4</sup> —				
Number.....	137, 134	153, 525	127, 267	130, 710
Horsepower.....	15, 591, 171	<sup>5</sup> 14, 228, 632	<sup>5</sup> 10, 917, 502	<sup>5</sup> 8, 189, 564
Internal-combustion engines—				
Number.....	37, 115	34, 356	21, 516	14, 334
Horsepower.....	988, 591	751, 186	289, 423	134, 742
Water wheels and water turbines—				
Number.....	<sup>6</sup> 18, 065	<sup>6</sup> 21, 282	<sup>6</sup> 20, 992	<sup>6</sup> 23, 099
Horsepower.....	<sup>6</sup> 1, 826, 413	<sup>6</sup> 1, 822, 888	<sup>6</sup> 1, 647, 880	<sup>6</sup> 1, 454, 112
Electric motors driven by purchased energy—				
Number.....	447, 502	199, 309	(?)	(?)
Horsepower.....	3, 884, 724	1, 749, 031	441, 589	182, 562
Electric motors:				
Total number.....	768, 825	388, 854	(?)	(?)
Total horsepower.....	8, 823, 254	4, 817, 140	1, 592, 475	492, 936
Driven by purchased energy—				
Number.....	447, 502	199, 309	(?)	(?)
Horsepower.....	3, 884, 724	1, 749, 031	441, 589	182, 562
Driven by energy generated in establishments reporting—				
Number.....	321, 323	189, 545	73, 119	16, 891
Horsepower.....	4, 938, 530	3, 068, 109	1, 150, 886	310, 374

<sup>1</sup> The figures for 1919 and earlier years cover all establishments reporting products valued at \$500 or more, whereas the corresponding limit for 1923 and subsequent years was \$5,000.

<sup>2</sup> The figures for 1919 and 1914 have been adjusted by subtracting the data for establishments classified in the "Automobile repairing" industry, which was not canvassed in connection with the censuses of manufactures for any of the other years covered by this table.

<sup>3</sup> These aggregates do not include data for "Rented horsepower other than electric" and therefore differ slightly from the corresponding aggregates given in the reports for 1919 and earlier years as originally published. (See also footnote 2.)

<sup>4</sup> Not reported separately.

<sup>5</sup> Includes horsepower reported as "other" owned power, as follows: 1909, 29,293; 1904, 92,154; 1899, 49,985.

<sup>6</sup> Includes data for a relatively small number of water motors.

<sup>7</sup> Not called for on schedule.

TABLE 25.—POWER EQUIPMENT, BY TYPE AND RATED CAPACITY, FOR INDUSTRIES REPORTING 25,000 HORSEPOWER OR MORE: 1929

INDUSTRY	HORSEPOWER OF PRIME MOVERS AND MOTORS DRIVEN BY PURCHASED ENERGY					Horsepower of electric motors driven by energy generated in establishments reporting
	Total	Steam engines and turbines	Internal-combustion engines	Water wheels and water turbines	Electric motors driven by purchased energy	
All industries.....	42,931,061	17,361,926	1,233,853	1,559,618	22,775,664	12,376,376
Industries reporting 25,000 horsepower or more						
Agricultural implements.....	128, 499	49, 943	732	3, 443	74, 381	40, 930
Aluminum manufactures.....	107, 846	13, 224	771	-----	93, 851	25, 687
Asbestos products, other than steam packing and pipe and boiler covering.....	40, 458	11, 485	170	290	28, 513	24, 465
Baking powders, yeast, and other leavening compounds.....	42, 788	27, 667	82	-----	15, 039	13, 150
Beverages.....	149, 166	64, 199	3, 441	320	81, 206	22, 675
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	66, 343	16, 733	185	310	49, 115	10, 565
Boots and shoes, other than rubber.....	140, 329	41, 395	2, 172	2, 100	94, 662	22, 552
Boots and shoes, rubber.....	62, 603	12, 315	-----	2, 125	48, 163	6, 485

TABLE 25.—POWER EQUIPMENT, BY TYPE AND RATED CAPACITY, FOR INDUSTRIES REPORTING 25,000 HORSEPOWER OR MORE: 1929—Continued

INDUSTRY	HORSEPOWER OF PRIME MOVERS AND MOTORS DRIVEN BY PURCHASED ENERGY					Horse- power of electric motors driven by energy generated in estab- lishments reporting
	Total	Steam engines and tur- bines	Internal- combust- ion engines	Water wheels and water turbines	Electric motors driven by purchased energy	
<i>Industries reporting 25,000 horsepower or more—Continued</i>						
Boxes, paper, not elsewhere classified	80,064	10,649	689	870	67,856	9,568
Boxes, wooden, except cigar boxes	137,261	67,913	1,354	818	67,176	21,482
Bread and other bakery products	355,523	21,312	16,950	260	317,001	30,295
Butter	164,413	39,698	3,390	236	121,089	4,941
Canning and preserving; Fruits and vegeta- bles; pickles, jellies, preserves, and sauces	224,097	88,060	7,284	240	128,513	18,756
Car and general construction and repairs, electric-railroad repair shops	76,424		65		76,359	
Car and general construction and repairs, steam-railroad repair shops	1,076,723	437,538	4,359	150	634,676	278,247
Carpets and rugs, wool, other than rag	65,205	39,450	45	1,508	24,202	36,213
Cars, electric and steam railroad, not built in railroad repair shops	238,455	96,022	1,878		140,555	95,405
Cash registers and adding, calculating, and card-tabulating machines	28,257	22,980	4		5,273	15,957
Caskets, coffins, burial cases, and other morticians' goods	39,609	12,213	220	378	26,798	5,443
Cast-iron pipe	69,757	7,955		250	61,552	7,514
Cement	1,183,989	585,334	16,901	6,700	575,054	578,987
Cereal preparations	66,291	13,918	280	669	51,444	8,576
Chemicals, not elsewhere classified	854,358	456,229	3,587	15,682	378,860	268,278
Chocolate and cocoa products, not includ- ing confectionery	63,236	31,685		450	31,101	37,207
Cigars and cigarettes	49,517	24,897	295		24,325	17,765
Clay products (other than pottery) and nonclay refractories	533,887	168,616	23,894	430	340,947	26,554
Clothing (except work clothing), men's, youths', and boys', not elsewhere class- ified	40,325	9,151	246	198	30,730	2,535
Clothing, women's, not elsewhere class- ified	35,291	217	149		34,925	16
Coffee and spice, roasting and grinding	45,465	3,984	392	75	41,014	3,233
Coke, not including gas-house coke	363,211	281,011	205	470	111,525	255,036
Compressed and liquefied gases	85,293	7,216	846	1,226	76,005	1,755
Concrete products	67,651	2,282	4,462	25	60,932	13
Condensed and evaporated milk	85,258	44,406	388	304	40,160	21,417
Confectionery	112,644	30,147	218	10	82,269	20,065
Cooperage	33,885	20,820	477	425	12,163	4,880
Copper, tin, and sheet-iron work, includ- ing galvanized-iron work, not elsewhere classified	53,749	2,027	2,570		49,152	2,048
Cordage and twine	73,021	23,673	295	4,101	44,952	5,720
Corn sirup, corn sugar, corn oil, and starch	84,686	83,488			1,198	98,499
Cotton goods	2,269,346	771,982	1,692	265,691	1,229,981	377,982
Cotton small wares	27,308	9,683	25	1,295	16,305	3,606
Cutlery (not including silver and plated cutlery) and edge tools	49,886	18,452	720	5,162	25,552	12,489
Doors, shutters, and window sash and frames, metal	25,027	830	67	900	23,230	1,407
Dyeing and finishing textiles	304,057	180,231	577	14,280	108,969	186,557
Electrical machinery, apparatus, and sup- plies	893,519	277,954	4,731	2,150	608,684	235,386
Engines, turbines, tractors, and water wheels	287,079	75,338	20,164	196	191,381	106,756
Explosives	51,612	22,811	204	483	28,114	13,442
Feeds, prepared, for animals and fowls	170,482	5,818	5,283	2,301	154,080	3,604
Felt goods, wool, hair, or jute	25,655	9,012	24	2,160	14,459	5,187
Fertilizers	166,984	22,817	3,192	15	140,960	6,566
Flavoring extracts and flavoring sirups	33,838	16,477	2,072	54	15,235	16,113
Flour and other grain-mill products	641,456	157,750	57,447	92,825	333,434	33,401
Food preparations, not elsewhere class- ified	36,716	12,544	66	350	23,756	5,073
Forgings, iron and steel, not made in plants operated in connection with roll- ing mills	147,791	22,841	1,710	435	122,505	18,187
Foundry and machine-shop products, not elsewhere classified	1,804,886	239,701	29,878	8,206	1,527,101	284,103
Furniture, including store and office fix- tures	503,970	183,543	1,767	3,884	314,776	117,680

TABLE 25.—POWER EQUIPMENT, BY TYPE AND RATED CAPACITY, FOR INDUSTRIES REPORTING 25,000 HORSEPOWER OR MORE: 1929—Continued

INDUSTRY	HORSEPOWER OF PRIME MOVERS AND MOTORS DRIVEN BY PURCHASED ENERGY				Horse- power of electric motors driven by energy generated in estab- lishments reporting	
	Total	Steam engines and tur- bines	Internal- combustion engines	Water wheels and water turbines		Electric motors driven by purchased energy
<i>Industries reporting 25,000 horsepower or more—Continued</i>						
Gas and electric fixtures; lamps, lanterns, and reflectors	40,200	3,385	89	750	35,985	1,049
Gas, manufactured, illuminating and heating	544,024	344,725	18,857	1,830	178,612	43,610
Glass	341,979	81,663	33,474		226,842	132,474
Grease and tallow, not including lubricating greases	41,686	15,115	136	30	26,405	10,299
Hardware not elsewhere classified	112,705	31,276	376	650	80,403	13,559
Ice cream	230,882	16,373	6,207		208,302	3,843
Ice, manufactured	1,077,295	229,811	100,993	3,337	743,154	39,501
Iron and steel: Steel works and rolling mills <sup>1</sup>	7,532,530	4,486,885	589,686	6,045	2,449,914	3,872,901
Jewelry	27,402	962	305	120	26,015	754
Jute goods	35,079	11,191		14,556	9,332	15,653
Knit goods	181,879	59,166	1,457	9,668	111,588	32,889
Leather: Tanned, curried, and finished	229,660	128,202	2,862	3,170	95,426	90,630
Lime	90,276	8,079	4,919	525	76,753	3,750
Linoleum	51,647	8,272	120	2,100	41,275	11,295
Lithographing	35,471	7,993			27,358	5,606
Locomotives, not made in railroad repair shops	98,482	27,538	1,155		69,789	67,510
Lumber and timber products, not elsewhere classified	1,985,301	1,619,342	49,210	35,710	281,039	603,494
Machine-tool accessories and small metal-working tools, not elsewhere classified	64,398	2,424	324	458	61,192	630
Machine tools	141,778	21,746	1,690	530	117,812	36,109
Marble, granite, slate, and other stone products	305,915	33,313	6,736	15,218	250,648	26,576
Mattresses and bed springs, not elsewhere classified	50,554	17,993	99	180	32,282	12,744
Meat packing, wholesale	524,989	233,833	1,577	570	289,009	83,872
Minerals and earths, ground or otherwise treated	39,117	1,620	582	630	36,285	574
Motion pictures, not including projection in theaters	49,732	439	6,425		42,868	238
Motor-vehicle bodies and motor-vehicle parts	824,705	100,012	1,457	11,039	712,197	104,233
Motor vehicles, not including motorcycles	713,912	235,168	190	18,000	460,554	189,094
Musical instruments: Pianos	27,193	12,990	175		14,028	12,913
Nonferrous-metal alloys and products, not including aluminum products	506,273	121,704	531	2,965	381,073	113,615
Oil, cake, and meal, cottonseed	284,395	131,604	16,050		137,741	9,458
Oil, cake, and meal, linseed	31,191	10,665	325	250	19,951	4,130
Paints and varnishes	180,315	36,596	971	1,424	141,324	29,964
Paper <sup>2</sup>	2,968,431	1,280,956	17,983	860,073	800,419	1,200,526
Paper goods, not elsewhere classified	67,145	12,146	168	975	53,856	29,970
Patent or proprietary medicines and compounds	44,538	11,844	291	74	32,329	6,661
Paving materials: Asphalt, tar, crushed slag, and mixtures	30,393	8,051	229		22,113	103
Petroleum refining	789,849	433,072	53,794		302,983	300,979
Phonographs	38,483	27,220	225		11,038	32,107
Photographic apparatus and materials	31,904	20,115			11,789	35,463
Planing-mill products (including general millwork), not made in planing mills connected with sawmills	677,998	252,544	7,108	2,852	415,494	100,954
Plated ware	28,899	8,680	50	371	19,798	3,138
Plumbers' supplies, not including pipe or vitreous-china sanitary ware	100,821	21,070	933	2,295	76,523	14,563
Pottery, including porcelain ware	61,868	17,409	742	177	43,540	9,083
Printing and publishing, book and job	211,448	8,964	379		202,105	8,305
Printing and publishing, newspaper and periodical	332,184	19,930	2,527		309,727	15,414
Pumps (hand and power) and pumping equipment	82,403	18,103	1,038	1,110	62,152	31,457
Rayon and allied products	195,844	132,945	20		62,879	88,469

<sup>1</sup> The horsepower items for "Iron and steel: Blast furnaces" are included with those for "Iron and steel: Steel works and rolling mills."

<sup>2</sup> The horsepower items for "Pulp (wood and other fiber)" are included with those for "Paper."



TABLE 25.—POWER EQUIPMENT, BY TYPE AND RATED CAPACITY, FOR INDUSTRIES REPORTING 25,000 HORSEPOWER OR MORE: 1929—Continued

INDUSTRY	HORSEPOWER OF PRIME MOVERS AND MOTORS DRIVEN BY PURCHASED ENERGY					Horsepower of electric motors driven by energy generated in establishments reporting
	Total	Steam engines and turbines	Internal-combustion engines	Water wheels and water turbines	Electric motors driven by purchased energy	
<i>Industries reporting 25,000 horsepower or more—Continued</i>						
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	23,493	13,868		25	14,600	12,205
Refrigerators, mechanical.....	44,953	500			44,453	5,704
Roofing, built-up and roll; asphalt shingles; roof coatings, other than paint.	33,791	4,732		1,300	27,759	3,353
Rubber goods other than tires, inner tubes, and boots and shoes.....	295,452	48,781	618	822	245,231	30,711
Rubber tires and inner tubes.....	463,257	183,935	220	133	278,969	203,725
Salt.....	57,711	38,258	1,623		17,830	22,879
Sausage, meat puddings, headcheese, etc., and sausage casings, not made in meat-packing establishments.....	25,755	1,435	64		24,256	290
Screw-machine products and wood screws.	64,840	7,828	755	150	56,107	3,479
Sewing machines and attachments.....	29,659	15,827		240	13,592	10,894
Ship and boat building, steel and wooden, including repair work.....	337,455	47,078	6,744	5	283,028	17,884
Shortenings (not including lard) and vegetable cooking oils.....	36,647	9,697	1,050		25,900	3,559
Silk and rayon manufactures.....	220,225	54,898	4,081	8,114	153,132	29,098
Smelting and refining, copper.....	412,244	242,867	458	1,840	167,079	127,548
Smelting and refining, lead.....	59,936	13,422	40		46,474	4,653
Smelting and refining, zinc.....	123,901	57,539	1,290		65,022	37,669
Soap.....	65,856	28,720	25	35	37,076	24,807
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	98,184	13,454	995	291	83,444	8,722
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	30,881	13,764	365	220	16,532	8,886
Steam fittings and steam and hot-water heating apparatus.....	137,339	22,893	605		113,841	16,848
Stoves and ranges (other than electric) and warm-air furnaces.....	113,100	17,494	3,665		91,941	12,161
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	266,175	28,224	7,919	215	220,817	39,962
Sugar, beet.....	146,393	135,676	1,237		9,480	75,860
Sugar, cane, not including products of refineries.....	66,779	64,937	1,526	50	266	1,977
Sugar refining, cane.....	98,627	84,465	1,100		14,072	93,175
Textile machinery and parts.....	66,539	17,219	448	1,824	47,048	17,157
Tin cans and other tinware, not elsewhere classified.....	77,332	14,082	538		62,712	11,444
Tools, not including edge tools, machine tools, files, or saws.....	65,965	11,540	1,626	1,375	51,424	7,227
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	25,642	6,142	662	1,548	17,290	2,742
Wall plaster, wall board, insulating board, and floor composition.....	142,354	15,231	5,650	325	121,148	13,847
Washing machines, wringers, driers, and ironing machines, for household use.....	26,732	2,410	25		24,297	2,340
Wire, drawn from purchased bars or rods.....	150,620	29,332	1,283	1,055	118,950	26,919
Wirework, not elsewhere classified.....	48,864	5,154	205	200	43,305	1,863
Wood distillation and charcoal manufacture.....	25,509	15,083	330	147	9,949	12,694
Wood preserving.....	57,913	35,113	1,325		21,475	4,700
Wood turned and shaped and other wooden goods, not elsewhere classified.....	88,398	48,272	1,476	3,394	35,256	10,857
Woolen goods.....	195,247	80,671	1,592	37,471	75,513	56,836
Worsted goods.....	372,536	239,455	7,232	29,085	96,764	233,211
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	68,630	14,620	90		53,920	24,865

TABLE 26.—POWER EQUIPMENT, BY TYPE AND RATED CAPACITY, BY DIVISIONS AND STATES: 1929

DIVISION AND STATE	HORSEPOWER OF PRIME MOVERS AND ELECTRIC MOTORS DRIVEN BY PURCHASED ENERGY					Horse- power of electric motors driven by energy generated in estab- lishments reporting
	Total	Steam engines and turbines	Internal- combus- tion engines	Water wheels and water turbines	Motors driven by purchased energy	
United States.....	42, 931, 061	17, 361, 926	1, 233, 853	1, 559, 613	22, 775, 664	12, 376, 376
GEOGRAPHIC DIVISIONS:						
New England.....	4, 686, 822	1, 680, 519	35, 738	742, 398	2, 228, 167	1, 336, 725
Middle Atlantic.....	11, 623, 682	4, 904, 163	340, 381	248, 183	6, 130, 955	3, 618, 960
East North Central.....	12, 602, 451	5, 173, 593	409, 876	240, 792	6, 778, 190	4, 314, 421
West North Central.....	2, 210, 192	763, 032	76, 394	84, 658	1, 286, 108	512, 188
South Atlantic.....	4, 318, 015	1, 744, 461	152, 423	153, 562	2, 267, 569	1, 050, 273
East South Central.....	1, 999, 354	934, 783	40, 090	10, 096	1, 014, 385	388, 983
West South Central.....	1, 749, 555	860, 613	118, 041	820	770, 081	371, 123
Mountain.....	1, 938, 689	445, 035	22, 400	7, 386	463, 868	248, 163
Pacific.....	2, 802, 301	855, 727	38, 510	71, 723	1, 836, 341	535, 840
NEW ENGLAND:						
Maine.....	679, 153	170, 604	2, 217	337, 684	168, 648	203, 072
New Hampshire.....	402, 147	149, 542	7, 769	143, 420	101, 416	142, 330
Vermont.....	163, 940	39, 152	2, 447	38, 909	83, 432	40, 990
Massachusetts.....	2, 068, 521	829, 285	10, 837	144, 180	1, 084, 219	639, 517
Rhode Island.....	463, 822	168, 422	6, 913	25, 396	263, 091	87, 133
Connecticut.....	909, 239	323, 514	5, 555	52, 809	527, 361	223, 683
MIDDLE ATLANTIC:						
New York.....	3, 986, 781	1, 058, 388	77, 900	210, 556	2, 639, 937	724, 774
New Jersey.....	1, 645, 408	763, 697	21, 360	14, 714	845, 637	535, 109
Pennsylvania.....	5, 991, 493	3, 082, 078	241, 121	22, 913	2, 645, 381	2, 359, 077
EAST NORTH CENTRAL:						
Ohio.....	4, 340, 575	1, 961, 783	119, 560	13, 795	2, 245, 437	1, 499, 435
Indiana.....	1, 858, 735	712, 472	163, 456	6, 320	976, 487	880, 156
Illinois.....	2, 807, 001	1, 105, 502	105, 652	11, 401	1, 584, 446	851, 644
Michigan.....	2, 356, 746	945, 991	11, 331	48, 066	1, 351, 358	655, 977
Wisconsin.....	1, 239, 394	447, 845	9, 877	161, 210	620, 462	427, 209
WEST NORTH CENTRAL:						
Minnesota.....	606, 704	225, 881	20, 813	77, 110	282, 900	161, 667
Iowa.....	366, 760	139, 490	5, 231	1, 195	220, 844	110, 588
Missouri.....	717, 978	201, 681	14, 880	1, 729	499, 688	119, 178
North Dakota.....	19, 756	10, 086	950	60	8, 660	5, 617
South Dakota.....	31, 297	11, 388	1, 279	222	18, 408	7, 961
Nebraska.....	169, 210	57, 367	4, 157	1, 837	105, 799	24, 169
Kansas.....	298, 487	117, 139	29, 084	2, 455	149, 809	33, 008
SOUTH ATLANTIC:						
Delaware.....	114, 961	54, 000	3, 195	2, 607	55, 159	46, 434
Maryland.....	659, 823	214, 020	79, 797	3, 775	362, 231	297, 984
District of Columbia.....	44, 916	11, 283	569	1, 520	31, 544	3, 381
Virginia.....	646, 251	344, 536	9, 188	36, 784	255, 743	213, 264
West Virginia.....	650, 199	343, 633	26, 851	8, 742	270, 973	249, 726
North Carolina.....	839, 445	273, 454	9, 753	84, 532	522, 206	100, 202
South Carolina.....	527, 326	196, 857	2, 065	35, 096	293, 308	60, 478
Georgia.....	641, 899	212, 744	10, 273	30, 506	388, 376	50, 727
Florida.....	192, 695	93, 934	10, 732	-----	88, 029	28, 077
EAST SOUTH CENTRAL:						
Kentucky.....	354, 740	118, 326	4, 852	1, 203	230, 359	44, 197
Tennessee.....	606, 704	251, 274	8, 832	3, 995	342, 603	122, 975
Alabama.....	785, 330	381, 861	13, 465	4, 898	385, 106	180, 608
Mississippi.....	252, 580	183, 322	12, 941	-----	56, 317	41, 203
WEST SOUTH CENTRAL:						
Arkansas.....	223, 034	124, 895	9, 500	-----	88, 639	33, 220
Louisiana.....	480, 404	329, 418	20, 617	130	130, 239	118, 118
Oklahoma.....	223, 257	88, 053	27, 934	-----	107, 270	55, 053
Texas.....	822, 860	318, 247	59, 990	690	443, 933	164, 732
MOUNTAIN:						
Montana.....	197, 781	31, 461	2, 530	1, 956	161, 834	13, 311
Idaho.....	105, 787	49, 260	738	165	55, 624	14, 917
Wyoming.....	46, 677	25, 770	2, 782	163	17, 962	14, 277
Colorado.....	233, 726	129, 713	3, 492	2, 148	98, 373	99, 474
New Mexico.....	23, 147	13, 801	2, 296	-----	7, 050	7, 008
Arizona.....	180, 637	127, 789	6, 637	-----	46, 211	69, 173
Utah.....	123, 737	52, 139	718	2, 454	68, 426	22, 781
Nevada.....	27, 197	15, 102	3, 207	500	8, 388	7, 222
PACIFIC:						
Washington.....	814, 891	400, 318	4, 397	15, 017	395, 159	276, 286
Oregon.....	418, 324	158, 777	2, 238	46, 584	210, 725	91, 011
California.....	1, 569, 086	296, 632	31, 875	10, 122	1, 230, 457	168, 243

TABLE 27.—CONSUMPTION OF FUEL, 1929, 1919, AND 1909, AND OF PURCHASED ELECTRIC ENERGY, 1929, BY QUANTITY AND COST

KIND	1929		1919 <sup>1</sup>	1909 <sup>1</sup>
	Quantity	Cost	Quantity	Quantity
Fuel:				
Coal, total <sup>2</sup> (short tons).....	224, 419, 940	\$798, 052, 692	219, 518, 152	177, 852, 984
Anthracite (long tons).....	9, 281, 416	43, 543, 316	14, 334, 402	14, 339, 220
Bituminous (short tons).....	214, 024, 754	754, 509, 376	203, 463, 622	161, 793, 058
Coke (short tons).....	52, 391, 839	243, 649, 015	42, 595, 019	37, 925, 338
Fuel oils, including crude oil and gas oils used as fuel (gallons) <sup>3</sup> .....	6, 583, 198, 995	212, 639, 372	3, 766, 779, 366	} 1, 441, 928, 544
Gasoline and kerosene (gallons) <sup>3</sup> .....	48, 473, 195	7, 556, 341	98, 467, 698	
Gas, natural (M cu. ft.).....	4 429, 826, 799	4 86, 369, 465	(5)	(5)
Gas, manufactured (M cu. ft.).....	4 1, 258, 450, 089	4 127, 571, 114	(5)	(5)
Other fuels.....		22, 391, 453	(7)	(7)
Purchased electric energy (kilowatt-hours).....	37, 393, 833, 046	475, 633, 877	(7)	(7)

<sup>1</sup> No data on cost of fuel, by kinds, were collected for years prior to 1929.

<sup>2</sup> Calculated by adding the number of tons of bituminous coal and the number of tons of anthracite reduced to a 2,000-pound basis.

<sup>3</sup> For years prior to 1929, reported in barrels; converted on basis of 42 gallons per barrel.

<sup>4</sup> Not including data for 25,425,014 M cu. ft. used in mining and quarrying nor for consumption in service industries.

<sup>5</sup> Not called for separately on schedule.

<sup>6</sup> Includes data for blast-furnace, coke-oven, and petroleum gases produced and consumed in the same establishments.

<sup>7</sup> No data.

TABLE 28.—CONSUMPTION OF FUEL AND PURCHASED ELECTRIC ENERGY, BY QUANTITY, FOR INDUSTRIES REPORTING A POWER-EQUIPMENT CAPACITY OF 25,000 HORSEPOWER OR MORE: 1929

INDUSTRY	Total cost of fuel and purchased electric energy	COAL		Coke	Fuel oils, gasoline, and kerosene	Gas (natural and manufactured)	Purchased electric energy
		Anthracite	Bituminous				
	Thousand dollars	Long tons	Short tons	Short tons	Thousand gals.	Million cu. ft.	Thousand kilowatt hours
All industries.....	1,973,863	9,281,416	214,024,754	52,391,839	6,631,672	1,688,277	37,393,833
<i>Industries reporting a power-equipment capacity of 25,000 horsepower</i>							
Agricultural implements.....	4,634	3,245	419,443	67,277	17,174	892	81,926
Aluminum manufactures.....	3,115	513	134,978	41,345	9,606	1,161	102,485
Asbestos products, other than steam packing or pipe and boiler covering.....	1,662	7,021	174,715	56	3,769	37	44,919
Baking powders, yeast, and other leavening compounds.....	1,236	2,072	217,773	-----	4,408	3	20,159
Beverages.....	5,377	33,619	427,314	3,387	10,550	413	61,558
Bolts, nuts, washers, and rivets, not made in plants operated in connection with rolling mills.....	2,297	2,006	103,895	3,738	10,525	1,185	57,042
Boots and shoes, other than rubber.....	4,713	22,122	265,585	910	4,492	95	112,557
Boots and shoes, rubber.....	1,494	4,932	90,318	-----	5,652	-----	69,060
Boxes, paper, not elsewhere classified.....	2,894	18,371	202,047	947	2,547	220	72,870
Boxes, wooden, except cigar boxes.....	1,218	1,603	33,962	177	146	41	38,868
Bread and other bakery products.....	30,511	334,342	512,214	421,049	31,690	11,860	404,711
Butter.....	6,888	22,330	512,292	2,319	12,628	842	141,195
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.....	6,002	16,414	666,345	10,162	32,266	474	69,729

<sup>1</sup> The difference between the total cost of fuel and purchased energy as given in this table, 1,973,863 thousands of dollars is found in the fact that the figure given in this table represents the total cost of all fuel actually consumed in manufacturing industries, including that produced and consumed in the manufactured-gas, coke, and petroleum-refining industries, whereas the figure given in the other table covers only the cost of fuel purchased.

TABLE 28.—CONSUMPTION OF FUEL AND PURCHASED ELECTRIC ENERGY, BY QUANTITY, FOR INDUSTRIES REPORTING A POWER-EQUIPMENT CAPACITY OF 25,000 HORSEPOWER OR MORE: 1929—Continued

INDUSTRY	Total cost of fuel and purchased electric energy	COAL		Coke	Fuel oils, gasoline, and kerosene	Gas (natural and manufactured)	Purchased electric energy
		Anthracite	Bituminous				
<i>Industries reporting a power-equipment capacity of 25,000 horsepower—Continued.</i>							
	<i>Thousand dollars</i>	<i>Long tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Thousand gals.</i>	<i>Million cu. ft.</i>	<i>Thousand kilowatt hours</i>
Car and general construction and repairs, electric-railroad repair shops.....	1,450	12,068	77,534	1,272	821	96	88,361
Car and general construction and repairs, steam-railroad repair shops.....	29,734	625,986	7,048,245	24,812	160,512	6,387	529,951
Carpets and rugs, wool, other than rag.....	2,230	31,353	304,340	-----	3,136	1	19,394
Cars, electric and steam railroad, not built in railroad repair shops	4,723	1,088	606,075	47,841	19,655	573	79,120
Cash registers and adding, calculating, and card-tabulating machines.....	481	7,132	59,125	31	684	60	7,722
Caskets, coffins, burial cases, and other morticians' goods.....	850	5,745	78,029	854	345	38	14,777
Cast-iron pipe.....	3,959	15,018	115,991	350,716	785	1,622	42,250
Cement.....	52,681	317,548	9,246,108	7,230	124,511	35,443	1,385,193
Cereal preparations.....	2,124	13,220	145,928	2,280	1,207	182	103,410
Chemicals, not elsewhere classified.....	50,257	259,261	5,139,821	173,376	157,191	4,589	5,817,024
Chocolate and cocoa products, not including confectionery.....	1,603	17,585	121,930	539	5,567	37	42,681
Cigars and cigarettes.....	1,636	24,304	134,856	147	1,267	29	33,901
Clay products (other than pottery) and nonclay refractories.....	45,072	154,479	8,123,404	56,086	101,366	25,179	368,622
Clothing (except work clothing), men's, youths', and boys', not elsewhere classified.....	3,440	17,082	116,863	1,604	1,787	46	54,107
Clothing, women's, not elsewhere classified.....	4,627	6,087	13,717	350	619	215	81,046
Coffee and spice, roasting and grinding.....	1,935	6,145	32,714	2,588	636	1,190	29,008
Coke, not including gas-house coke.....	2284,765	15,327	82,346,921	1,747,641	6,117	117,898	170,027
Compressed and liquefied gases.....	3,557	5,533	29,010	22,947	3,073	131	236,632
Concrete products.....	1,538	5,728	78,945	1,984	1,948	41	21,008
Condensed and evaporated milk.....	3,854	27,905	572,221	351	9,106	264	28,910
Confectionery.....	4,691	49,109	262,091	3,304	4,551	1,150	86,684
Cooperage.....	509	2,665	40,337	2,930	657	43	7,162
Copper, tin, and sheet-iron work, including galvanized-iron work, not elsewhere classified.....	1,551	4,836	56,585	5,252	1,002	327	28,480
Cordage and twine.....	1,468	9,982	81,174	13	2,485	2	62,061
Corn sirup, corn sugar, corn oil, and starch.....	3,802	36,150	1,407,639	454	1,217	86	1,747
Cotton goods.....	47,371	84,240	2,577,647	1,928	52,443	905	2,749,569
Cotton small wares.....	1,033	6,493	45,566	32	3,446	10	23,354
Cutlery (not including silver and plated cutlery) and edge tools.....	1,267	2,365	69,286	4,080	2,422	300	29,542
Doors, shutters, and window sash and frames, metal.....	624	3,037	17,409	1,185	1,834	120	16,963
Dyeing and finishing textiles.....	16,590	476,431	1,400,206	5,418	117,442	679	130,656
Electrical machinery, apparatus, and supplies.....	23,489	99,870	1,543,869	61,452	31,001	3,493	869,229
Engines, turbines, tractors, and water wheels.....	7,465	2,128	422,590	121,514	22,879	2,726	207,478
Explosives.....	1,798	32,439	174,244	111	16,600	46	38,003
Feeds, prepared, for animals and fowls.....	2,944	2,515	128,502	2,106	3,502	91	115,993
Felt goods, wool, hair, or jute.....	839	2,775	94,837	91	2,026	26	13,974
Fertilizers.....	2,781	4,934	124,897	55	5,790	170	97,843

\* Includes cost of fuel purchased and consumed. See footnote 1, p. 829.

TABLE 28.—CONSUMPTION OF FUEL AND PURCHASED ELECTRIC ENERGY, BY QUANTITY, FOR INDUSTRIES REPORTING A POWER-EQUIPMENT CAPACITY OF 25,000 HORSEPOWER OR MORE: 1929—Continued

INDUSTRY	Total cost of fuel and purchased electric energy	COAL		Coke	Fuel oils, gasoline, and kerosene	Gas (natural and manufactured)	Purchased electric energy
		Anthracite	Bituminous				
<i>Industries reporting a power-equipment capacity of 25,000 horsepower—Continued</i>							
	<i>Thousand dollars</i>	<i>Long tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Thousand gals.</i>	<i>Million cu. ft.</i>	<i>Thousand kilowatt hours</i>
Flavoring extracts and flavoring syrups.....	1,606	13,532	262,903	4,531	5,134	58	14,401
Flour and other grain-mill products.....	10,248	21,876	542,015	1,280	15,443	1,238	531,216
Food preparations, not elsewhere classified.....	1,644	3,775	118,850	8,301	2,273	549	19,238
Forgings, iron and steel, not made in plants operated in connection with rolling mills.....	7,960	2,591	501,218	9,371	71,362	1,194	121,417
Foundry and machine-shop products, not elsewhere classified.....	60,556	187,942	2,890,992	1,497,329	111,880	8,301	1,238,858
Furniture, including store and office fixtures.....	10,804	36,478	1,109,038	10,962	3,815	492	215,225
Gas and electric fixtures; lamps, lanterns, and reflectors.....	1,707	7,604	50,106	1,399	2,862	1,918	45,003
Gas, manufactured, illuminating and heating.....	130,998	196,706	10,073,075	1,445,030	924,297	103,207	282,464
Glass.....	30,179	97,470	2,310,195	1,585	57,412	53,435	502,314
Grease and tallow, not including lubricating greases.....	2,039	13,491	323,016	1,527	2,123	110	15,711
Hard ware not elsewhere classified.....	3,869	15,894	261,169	16,663	4,150	728	88,813
Ice cream.....	7,816	29,019	229,662	2,343	6,686	402	258,919
Ice, manufactured.....	29,558	99,125	1,109,109	7,905	47,562	5,354	1,600,018
Iron and steel: Blast furnaces.....	193,672	9,087	800,470	43,244,251	10,291	1,668	79,733
Iron and steel: Steel works and rolling mills.....	208,279	493,746	22,230,632	1,216,635	988,008	973,255	3,466,884
Jewelry.....	867	3,712	8,589	176	1,458	141	15,442
Knit goods.....	282	5,895	18,969	-----	302	-----	9,602
Knit goods.....	7,955	51,995	662,949	652	6,698	283	172,941
Leather goods, not elsewhere classified.....	187	505	7,012	2	32	11	2,712
Lime.....	6,202	27,651	843,909	64,165	10,667	657	62,574
Linoleum.....	1,243	108,405	73,875	431	111	-----	44,081
Lithography.....	1,036	4,484	36,100	1,229	2,429	71	22,253
Locomotives, not made in railroad repair shops.....	1,881	51,272	174,493	12,484	8,594	85	41,078
Lumber and timber products, not elsewhere classified.....	8,527	6,573	577,791	696	46,998	21	275,580
Machine-tool accessories and small metal-working tools, not elsewhere classified.....	2,185	7,607	55,565	1,485	1,987	433	64,936
Machine tools.....	3,385	11,839	187,464	25,229	3,367	311	99,005
Marble, granite, slate, and other stone products.....	5,090	10,617	170,825	1,601	1,526	49	151,906
Mattresses and bed springs, not elsewhere classified.....	1,170	1,793	78,008	63	3,793	92	21,514
Meat packing, wholesale.....	20,149	147,792	2,945,372	62,587	24,689	9,285	475,383
Minerals and earths, ground or otherwise treated.....	1,119	43,132	23,349	4,199	2,237	175	74,220
Motion pictures, not including projection in theaters.....	763	398	5,158	332	939	92	32,589
Motor-vehicle bodies and motor-vehicle parts.....	19,604	21,176	1,184,796	19,327	48,928	2,466	731,558
Motor vehicles, not including motorcycles.....	22,014	1,578	1,705,292	94,069	58,708	3,860	621,996
Musical instruments: Pianos.....	695	8,058	96,271	722	30	9	7,401
Nonferrous-metal alloys and products, not including aluminum products.....	17,542	76,192	600,217	66,293	72,127	3,621	554,438
Oil, cake, and meal, cottonseed.....	5,568	3,249	586,613	-----	12,942	4,068	191,329
Oil, cake, and meal, linseed.....	991	-----	81,767	1,350	5,524	33	42,755
Paints and varnishes.....	6,860	82,582	538,993	47,841	16,429	678	149,610
Paper <sup>1</sup> .....	64,527	865,907	7,985,109	1,290	108,757	7,573	2,826,017
Paper goods, not elsewhere classified.....	1,882	19,870	116,215	32	2,372	251	40,885
Patent or proprietary medicines and compounds.....	1,536	27,081	106,796	996	3,976	68	20,276

<sup>1</sup> Includes cost of fuel purchased and consumed. See footnote 1, p. 829.

<sup>2</sup> Figure for "Purchased electric energy" for "Paper" includes that for "Pulp (wood and other fiber)."

TABLE 28.—CONSUMPTION OF FUEL AND PURCHASED ELECTRIC ENERGY, BY QUANTITY, FOR INDUSTRIES REPORTING A POWER-EQUIPMENT CAPACITY OF 25,000 HORSEPOWER OR MORE: 1929—Continued

INDUSTRY	Total cost of fuel and purchased electric energy	COAL		Coke	Fuel oils, gasoline and kerosene	Gas (natural and manufactured)	Purchased electric energy
		Anthracite	Bituminous				
<i>Industries reporting a power-equipment capacity of 25,000 horsepower—Continued</i>							
	<i>Thousand dollars</i>	<i>Long tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Thousand gals.</i>	<i>Million cu. ft.</i>	<i>Thousand kilowatt hours</i>
Paving materials: Asphalt, tar, crushed slag, and mixtures.....	836	2,689	93,625	230	3,414	16	12,360
Petroleum refining.....	92,068	190,754	2,587,450	575	2,164,119	206,970	660,625
Phonographs.....	738	11,023	88,786	-----	530	60	10,754
Photographic apparatus and materials.....	1,313	421	199,375	1,942	190	51	34,853
Planing-mill products (including general millwork) not made in planing mills connected with sawmills.....	6,882	16,059	404,091	1,585	2,304	114	165,726
Plated ware.....	794	3,596	51,341	66	873	69	18,589
Plumbers' supplies, not including pipe or vitreous-china sanitary ware.....	4,321	2,285	182,051	75,130	13,128	1,556	131,736
Pottery, including porcelain ware.....	7,338	20,064	626,262	600	19,023	6,823	42,663
Printing and publishing, book and job.....	9,126	29,753	150,834	3,722	4,695	839	272,412
Printing and publishing, newspaper and periodical.....	12,129	49,836	166,780	1,954	8,636	2,314	325,884
Pulp, (wood and other fiber).....	10,740	269,831	1,826,413	-----	21,553	4,484	(*)
Pumps (hand and power) and pumping equipment.....	2,169	13,935	121,857	28,399	4,491	368	45,050
Rayon and allied products.....	4,319	8,300	766,688	-----	2,802	1	152,365
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.....	830	2,956	68,500	31	1,559	47	12,739
Refrigerators, mechanical.....	1,482	2,333	52,520	1,607	2,598	191	94,802
Roofing, built-up and roll; asphalt shingles; roof coatings other than paints.....	2,019	17,895	181,408	3,010	20,055	139	37,725
Rubber goods other than tires, inner tubes, and boots and shoes.....	7,860	79,337	584,608	472	12,888	125	321,775
Rubber tires and inner tubes.....	10,324	-----	1,630,616	-----	1,626	1,204	491,615
Salt.....	3,184	75,097	621,904	2,346	7,118	1,975	15,354
Sausage, meat puddings, head-cheese, etc., and sausage casings, not made in meat-packing establishments.....	1,140	8,080	27,850	1,147	1,038	308	22,237
Screw-machine products and wood screws.....	2,025	1,473	68,671	247	2,778	150	71,341
Sewing machines and attachments.....	603	44,469	30,616	35	1,638	33	15,856
Ship and boat building, steel and wooden, including repair work.....	4,104	10,977	206,744	10,338	13,858	426	117,733
Shortenings (not including lard) and vegetable cooking oils.....	1,421	186	156,250	4,789	6,555	690	48,335
Silk and rayon manufactures.....	8,497	194,558	235,451	22,804	8,613	52	280,456
Smelting and refining, copper.....	14,737	53,826	958,274	165,173	133,402	702	503,280
Smelting and refining, lead.....	4,683	1,911	179,555	309,089	9,707	458	101,839
Smelting and refining, zinc.....	10,601	858,747	954,912	90,628	6,138	17,220	600,599
Soap.....	3,529	124,867	580,005	6,153	3,752	188	52,998
Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering.....	4,566	23,377	223,766	5,850	17,108	1,232	97,704
Steam and other packing, pipe and boiler covering, and gaskets, not elsewhere classified.....	1,462	15,646	163,019	25,930	3,195	58	40,342
Steam fittings and steam and hot-water heating apparatus.....	5,461	10,230	244,595	179,514	8,322	1,213	132,114
Stoves and ranges (other than electric) and warm-air furnaces.....	5,019	17,008	199,599	104,084	8,861	1,215	102,716
Structural and ornamental iron and steel work, not made in plants operated in connection with rolling mills.....	4,762	17,013	207,294	33,201	8,494	2,890	133,333

\* Includes cost of fuel purchased and consumed. See footnote 1, p. 829.

\* Figures for "Purchased electric energy" for "Paper" includes that for "Pulp (wood and other fiber)."

TABLE 28.—CONSUMPTION OF FUEL AND PURCHASED ELECTRIC ENERGY, BY QUANTITY, FOR INDUSTRIES REPORTING A POWER-EQUIPMENT CAPACITY OF 25,000 HORSEPOWER OR MORE: 1929—Continued

INDUSTRY	Total cost of fuel and purchased electric energy	COAL		Coke	Fuel oils, gasoline and kerosene	Gas (natural and manufactured)	Purchased electric energy
		Anthracite	Bituminous				
<i>Industries reporting a power-equipment capacity of 25,000 horsepower—Continued.</i>	<i>Thousand dollars</i>	<i>Long tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Thousand gals.</i>	<i>Million cu. ft.</i>	<i>Thousand kilowatt hours</i>
Sugar, beet.....	4,574	369	991,857	44,208	18,237	991	5,247
Sugar, cane, not including products of refineries.....	785	960	5,990	-----	23,816	209	272
Sugar refining, cane.....	6,779	444,400	570,643	-----	60,441	6,987	11,517
Textile machinery and parts.....	1,730	7,457	93,728	13,014	1,869	43	45,526
Tin cans and other tinware, not elsewhere classified.....	2,475	8,153	117,302	757	3,341	1,401	56,045
Tools, not including edge tools, machine tools, files, or saws.....	2,532	9,403	98,303	4,711	12,462	670	49,058
Toys (not including children's wheel goods or sleds), games, and playground equipment.....	841	3,181	33,971	2,669	322	160	15,783
Wall plaster, wall board, insulating board, and floor composition.....	4,525	8,377	322,138	11,235	21,430	1,783	157,912
Washing machines, wringers, driers, and ironing machines, for household use.....	696	77	45,328	2,738	931	42	17,793
Wire, drawn from purchased bars or rods.....	5,486	22,354	328,341	6,917	11,118	1,255	202,083
Wirework, not elsewhere classified.....	1,866	4,965	89,946	1,816	2,180	659	58,254
Wood distillation and charcoal manufacture.....	1,803	5,260	292,249	119	3,002	524	16,991
Wood preserving.....	2,226	4,936	382,174	2,816	10,349	1,444	14,867
Wood turned and shaped and other wooden goods, not elsewhere classified.....	888	2,382	54,438	166	251	19	21,335
Woolen goods.....	6,108	48,161	629,411	-----	9,603	23	92,599
Worsted goods.....	8,076	71,914	739,813	-----	52,470	18	118,308
Wrought pipe, welded and heavy riveted, not made in plants operated in connection with rolling mills.....	2,581	29,111	337,537	4,350	4,128	798	62,025

TABLE 29.—CONSUMPTION OF FUEL AND PURCHASED ELECTRIC ENERGY, BY QUANTITY, BY DIVISIONS AND STATES: 1929

INDUSTRY	Total cost of fuel and purchased electric energy	COAL		Coke	Fuel oils, gasoline, and kerosene	Gas	Purchased electric energy
		Anthracite	Bituminous				
United States.....	Thousands of dollars 1,973,863	Long tons 9,281,416	Short tons 214,024,754	Short tons 52,391,839	Thousands of gallons 6,631,672	Millions of cubic feet 1,688,277	Thousands of kilo-watt-hours 37,393,833
<b>GEOGRAPHIC DIVS.:</b>							
New England.....	149,659	692,329	10,435,839	732,256	586,667	14,806	3,106,269
New England.....	658,326	6,889,064	72,933,441	21,434,499	1,744,670	604,706	11,424,212
Middle Atlantic.....	678,018	9,485,884	84,789,989	21,607,985	1,824,824	561,113	9,227,270
W. N. Central.....	98,589	221,507	10,123,065	862,804	321,370	62,623	1,838,262
South Atlantic.....	146,274	312,783	16,534,686	2,586,748	350,698	64,904	4,533,700
E. S. Central.....	76,523	67,838	13,524,679	3,903,005	85,871	38,897	2,074,459
W. S. Central.....	75,508	87,896	115,139	990,312	204,682	2,556	1,256,054
Mountain.....	44,319	59,537	4,351,155	1,012,755	200,893	78,109	1,233,832
Pacific.....	69,048	5,318	775,724	136,648	1,026,367	58,378	2,699,784
<b>NEW ENGLAND:</b>							
Maine.....	12,745	31,342	1,218,401	9,434	33,768	110	328,959
New Hampshire.....	8,784	265,096	553,596	12,026	12,977	80	361,059
Vermont.....	3,392	23,885	244,163	12,548	3,348	32	66,228
Massachusetts.....	75,519	233,495	5,089,493	477,370	337,756	8,488	1,409,875
Rhode Island.....	14,664	36,628	850,821	31,756	115,638	414	305,311
Connecticut.....	34,554	101,883	2,479,365	189,122	83,136	5,682	634,838
<b>MIDDLE ATLANTIC:</b>							
New York.....	198,257	1,729,585	16,061,287	3,555,150	427,575	120,528	6,871,739
New Jersey.....	89,031	1,996,020	5,610,464	543,105	700,151	21,899	1,051,187
Pennsylvania.....	348,088	3,163,459	51,261,690	17,331,244	616,944	462,279	3,501,286
<b>E. N. CENTRAL:</b>							
Ohio.....	221,974	140,657	29,843,144	10,691,089	288,426	257,224	3,080,040
Indiana.....	131,905	105,178	16,724,109	4,420,219	309,154	207,740	1,063,583
Illinois.....	163,925	353,536	19,919,108	5,018,738	471,984	55,535	2,120,377
Michigan.....	113,668	119,829	12,763,015	1,205,929	183,146	32,998	2,028,422
Wisconsin.....	46,545	226,484	5,540,613	272,010	72,114	8,016	934,849
<b>W. N. CENTRAL:</b>							
Minnesota.....	26,884	82,662	2,872,719	464,538	32,172	14,384	388,945
Iowa.....	17,805	24,074	2,365,724	103,287	32,197	374	392,857
Missouri.....	30,083	71,131	3,242,658	156,925	101,970	10,518	679,870
North Dakota.....	1,113	2,019	230,629	1,965	786	60	10,262
South Dakota.....	1,498	5,478	126,148	5,341	2,596	853	17,378
Nebraska.....	6,777	3,586	690,082	99,877	23,089	108	127,628
Kansas.....	14,429	32,557	600,105	30,871	128,560	36,319	221,313
<b>SOUTH ATLANTIC:</b>							
Delaware.....	4,395	23,606	438,244	15,087	32,316	65	66,895
Maryland.....	37,790	134,048	3,501,777	1,451,396	181,577	23,341	463,645
Dist. of Columbia.....	3,105	6,692	84,727	74,912	25,963	209	40,514
Virginia.....	16,018	30,916	2,640,913	203,080	18,995	118	407,852
West Virginia.....	29,375	32,096	5,805,118	742,217	10,360	39,798	575,932
North Carolina.....	23,024	33,473	1,552,436	21,591	6,732	41	1,572,918
South Carolina.....	12,359	25,503	852,445	8,706	13,991	727	600,457
Georgia.....	15,413	24,228	1,153,514	34,942	33,004	522	646,918
Florida.....	4,795	2,231	225,512	34,817	27,761	83	98,600
<b>E. S. CENTRAL:</b>							
Kentucky.....	13,643	9,484	2,008,641	259,477	27,847	10,712	271,701
Tennessee.....	17,356	14,684	2,624,706	285,386	11,469	1,072	1,050,497
Alabama.....	41,512	39,492	8,387,329	3,349,047	38,609	20,672	682,450
Mississippi.....	4,012	3,928	514,003	9,095	7,945	35	69,812
<b>W. S. CENTRAL:</b>							
Arkansas.....	4,469	2,871	113,366	6,158	14,969	12,499	135,010
Louisiana.....	16,664	4,598	204,274	10,344	100,184	47,541	252,675
Oklahoma.....	12,884	22,978	142,048	43,442	139,247	47,870	140,278
Texas.....	41,490	57,449	361,488	55,195	595,913	90,772	728,090
<b>MOUNTAIN:</b>							
Montana.....	7,394	1,722	430,406	45,043	14,551	2,925	818,476
Idaho.....	1,638	1,648	137,612	23,755	1,291	3	61,856
Wyoming.....	3,729	134	156,371	4,057	29,860	18,525	22,509
Colorado.....	14,192	42,526	2,770,429	578,333	10,971	54,143	84,082
New Mexico.....	730	2,043	20,340	4,522	8,726	133	6,349
Arizona.....	8,211	336	230,821	53,831	100,657	25	131,193
Utah.....	7,656	8,453	1,004,270	303,089	21,895	2,414	102,697
Nevada.....	770	2,675	41,897	125	12,941	1	6,671
<b>PACIFIC:</b>							
Washington.....	13,278	2,350	674,892	43,964	71,610	217	782,922
Oregon.....	7,302	911	68,149	4,894	58,743	133	315,759
California.....	49,068	2,057	32,683	87,790	866,014	58,027	1,601,102

<sup>1</sup> The difference between the total cost of fuel and purchased energy as given in this table, 1,973,863 thousands of dollars, and the corresponding total as given in Tables 3, 1,866,166 thousands of dollars is found in the fact that the figure given in this table represents the total cost of all fuel actually consumed in manufacturing industries, including that produced and consumed in the manufactured-gas, coke, and petroleum-refining industries, whereas the figure given in the other table covers only the cost of fuel purchased.