MANUFACTURES—WISCONSIN.

EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than $500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1919, or 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 during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of this section give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal-revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture. The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured—and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

GENERAL STATISTICS.

General character of the state.—Wisconsin has a gross area of 56,066 square miles, of which 55,256 represent land surface. The inhabitants of the state in 1900 numbered 2,069,042; in 1910, 2,333,860; and in 1920, 2,632,067. In total population Wisconsin ranked thirteenth among the states in 1920. The number of inhabitants per square mile in 1910 was 42.2, the corresponding figure for 1920 being 47.6, Wisconsin ranking twenty-second in this respect among the states.

In 1920 there were 21 cities in the state with more than 10,000 inhabitants. The combined population of these cities in that year was 962,129, which formed 36.6 per cent of the total for Wisconsin, and in 1919 they reported 63.9 per cent of the state's manufactured products.

Importance and growth of manufactures (Table 1).—The large increases in salaries and wages, cost of materials, and value of products, from 1914 to 1919, as presented in Table 1, are in a great measure due to the changes in industrial conditions brought about by the World War, and therefore can not properly be used to measure the growth of manufactures during the census period 1914 to 1919. The increases shown, however, in average number of wage earners, horsepower, and number of establishments, are indicative of a decided growth in the manufacturing activities of the state. The addition of the Federal income tax since 1914 accounts for the large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for 1919 with those for prior censuses. Of the 71 counties in the state, Milwaukee County, containing the city of Milwaukee, reported 41.1 per cent of the total value of products for the state and 40.2 per cent of the average number of wage earners.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always conclusive as indicating their importance from a manufacturing standpoint. Their ranking would change materially if based upon the average number of wage earners or value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex, for 1919, was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 36.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 1,000 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—General increases from 1914 to 1919 are shown in practically all of the details for the cities where comparative figures are available.

Wage earners, by months (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined for the state and for the cities of 10,000 inhabitants or more, and also the number of females for industries in which a large number of females were employed. The 21 cities combined reported a slightly larger proportion of the female wage earners than the state as a whole, 17.7 per cent as compared with 15.3 per cent for the state.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Wisconsin. In that year 14.4 per cent of the wage earners were reported in the group "48 and under" as against 31.3 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 39.5 per cent of the total wage earners, as compared with 19.3 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 95 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 26.7 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 5 per cent of the total number of manufacturing establishments in the state, but reported 73.3 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at "$100,000 to $1,000,000" con-

stituted one group, but at the census of 1919 this group was subdivided into "$100,000 to $500,000" and "$500,000 to $1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in several instances to combine the establishments of one group of the industry with those of some other group of that industry to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).—This table strikingly illustrates the fact that the number of establishments of itself is no real index of the extent of manufacturing activities.

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 29.3 per cent of the number of establishments in the state in 1919, they reported 92.6 per cent of the average number of wage earners and 87.4 per cent of the total value of products. During the five-year period 1914 to 1919, the average number of wage earners in corporations increased 71,545, or 41.4 per cent, and the value of products, $1,032,547,312, or 177.3 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in the 21 cities in 1919 represented 39.9 per cent of the total in the state. They reported in that year 68.8 per cent of the average number of wage earners and 63.9 per cent of the value of products.

Principal industries in Milwaukee and Racine, with per cent of total for the state (Table 16).—This table includes all industries having products of $2,000,000 and over in Milwaukee and $700,000 and over in Racine, figures being given for those which can be shown without disclosing the operations of individual establishments.

It is deemed of first importance to present the statistics for the state as a whole for all industries which can be shown without disclosing the operations of individual establishments. In so doing, however, it sometimes happens that quite important industries can not be shown in the city without disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 196,343 horsepower, or 28.8 per cent. This increase, however, is chiefly due to the gain of 128,357 horsepower, or 150.2 per cent, in rented power. The owned power increased 67,986 horsepower, or 11.4 per cent, during the same period.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. There was a decided increase in the quantities of each of the several kinds of fuel used in 1919, as compared with 1914. In 1919 the brass and bronze products; iron and steel forgings; malt; paint; and rubber goods industries consumed 58.9 per cent of the anthracite coal used.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE.[1]			
	1919	1914	1909	1904	1899	1914–1919	1909–1914	1904–1909	1899–1904
Number of establishments	10,393	9,104	9,721	8,558	7,841	14.2	−6.3	13.6	9.1
Persons engaged	317,899	230,273	213,426	173,572	(2)	38.1	7.9	23.0	.....
Proprietors and firm members	7,951	7,425	8,556	7,961	(2)	7.1	−13.2	7.5	.....
Salaried employees	45,999	28,538	22,287	14,220	10,480	61.2	28.0	56.7	35.7
Wage earners (average number)	263,949	194,310	182,583	151,391	137,525	35.8	6.4	20.6	19.1
Primary horsepower	878,682	682,339	554,179	440,234	364,380	28.8	23.1	25.9	20.8
Capital	$1,361,729,196	$754,287,116	$605,657,324	$412,647,051	$286,060,566	80.5	24.5	46.8	44.3
Salaries and wages	377,978,303	149,762,032	119,641,634	86,970,037	66,188,378	152.4	25.2	37.6	31.4
Salaries	87,537,742	37,568,869	25,736,876	15,498,232	10,492,562	133.0	46.0	66.1	47.7
Wages	290,440,561	112,193,163	93,904,808	71,471,805	55,695,816	158.9	19.5	31.4	28.3
Paid for contract work	3,688,230	3,453,920	2,624,700	2,900,171	(2)	6.8	31.6	−9.5	.....
Rent and taxes	84,038,655	17,343,039	12,832,391	[3] 3,551,913	(2)	384.6	35.2	.....	.....
Cost of materials	1,127,274,961	417,415,074	346,356,583	227,255,002	185,695,393	170.1	20.5	52.4	22.4
Value of products	1,846,984,307	695,172,002	590,305,538	411,139,681	326,752,878	165.7	17.8	43.6	25.8
Value added by manufacture [4]	719,709,346	277,756,928	243,948,955	183,884,589	141,057,485	159.1	13.9	32.7	30.4

[1] A minus sign (−) denotes decrease. [2] Figures not available. [3] Exclusive of internal revenue. [4] Value of products less cost of materials.

TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horsepower.
		Average number.	Wages.					
The state	10,393	263,949	$290,440,561	$84,038,655	$1,127,274,961	$1,846,984,307	$719,709,346	878,682
Adams	17	104	161,387	918	326,500	526,384	199,884	345
Ashland	81	3,112	3,113,314	239,594	6,219,674	11,376,752	5,157,078	8,025
Barron	74	460	458,088	149,603	4,361,246	5,428,788	1,067,542	1,729
Bayfield	31	617	750,005	219,557	2,941,038	5,332,730	2,391,692	3,014
Brown	253	5,540	5,655,200	1,822,543	20,537,234	37,064,476	16,527,242	17,085
Buffalo	43	98	82,392	6,509	2,019,540	2,251,818	232,278	464
Burnett	29	42	33,643	2,872	933,903	1,059,539	125,636	521
Calumet	84	670	649,316	103,632	6,667,657	8,023,278	1,355,621	3,568
Chippewa	118	1,986	1,881,990	401,381	8,274,072	14,212,823	5,938,751	20,340
Clark	133	684	632,292	107,782	5,776,321	7,493,541	1,717,220	2,975
Columbia	110	698	710,513	284,868	5,675,781	7,507,554	1,831,773	1,787
Crawford	56	221	182,396	49,592	1,530,911	1,950,162	419,251	1,281
Dane	392	4,850	5,389,583	1,244,836	20,735,022	35,928,166	15,193,144	12,714
Dodge	325	3,261	3,394,301	741,304	22,739,071	31,526,772	8,787,701	17,392
Door	72	438	510,072	22,452	3,818,806	5,044,520	1,225,714	2,035
Douglas	105	6,271	9,877,773	1,029,717	27,476,249	44,472,687	16,996,438	11,964
Dunn	55	521	526,978	77,351	6,917,066	7,917,203	1,000,137	1,957
Eau Claire	115	3,412	3,101,229	536,154	9,603,914	17,063,957	7,460,043	18,094
Florence	8	221	203,572	14,028	229,573	567,355	337,782	463
Fond du Lac	282	5,587	5,499,760	1,065,944	25,968,431	39,587,686	13,619,255	11,928
Forest	25	1,230	1,074,500	149,599	957,497	3,142,114	2,184,617	3,790
Grant	139	297	272,262	114,489	4,113,765	4,964,562	850,797	1,557
Green	195	500	649,258	191,742	8,301,028	10,532,270	2,231,242	1,562
Green Lake	70	620	517,687	200,459	5,054,684	6,566,953	1,512,269	2,170
Iowa	169	304	350,243	102,802	5,700,402	6,504,108	803,706	1,707
Iron	30	176	131,327	8,248	134,854	407,702	272,848	60
Jackson	47	80	79,358	6,845	2,011,224	2,218,950	207,726	745
Jefferson	173	2,824	2,543,639	496,833	16,583,338	24,612,373	8,029,035	7,324
Juneau	33	142	129,641	28,831	1,516,999	1,779,546	262,547	708
Kenosha	93	13,080	18,603,597	6,641,079	61,635,832	104,202,453	42,566,621	35,897
Kewaunee	95	494	451,589	49,632	3,479,348	4,605,450	1,126,102	2,024
La Crosse	186	4,723	4,048,480	1,142,452	16,955,430	28,194,232	11,238,802	11,927
Lafayette	145	134	142,769	17,315	2,828,100	3,584,044	755,944	664
Langlade	88	1,846	1,784,805	220,803	3,779,306	7,047,418	3,268,112	6,228
Lincoln	95	1,876	1,826,171	388,032	5,773,603	9,961,369	4,187,766	15,596
Manitowoc	321	6,219	7,241,428	3,010,020	24,865,794	42,480,562	17,614,768	16,308
Marathon	253	5,032	4,840,302	1,793,233	20,451,727	31,087,144	10,635,417	33,333
Marinette	119	3,988	3,768,882	707,075	10,757,013	17,921,164	7,164,151	25,184
Marquette	29	162	116,825	9,901	739,901	1,103,105	363,204	452
Milwaukee	2,247	106,137	117,674,094	41,265,364	457,430,558	759,888,008	302,457,450	242,816
Monroe	66	285	343,972	17,706	4,524,754	5,250,777	726,023	1,221
Oconto	105	1,493	1,162,873	248,018	4,156,493	6,861,720	2,705,227	9,729
Oneida	39	1,554	1,506,179	530,505	2,528,081	5,579,570	3,051,489	11,514
Outagamie	216	5,522	6,016,071	1,933,428	21,082,084	36,386,956	15,304,872	62,579
Ozaukee	99	1,587	1,426,058	385,119	4,815,628	7,820,520	3,004,892	4,214
Pepin	15	34	34,577	2,809	771,075	849,759	78,684	180
Pierce	36	86	97,969	8,243	1,851,504	2,087,475	235,971	596
Polk	67	256	250,733	23,823	3,358,845	3,959,029	600,184	2,173
Portage	84	1,773	1,733,668	535,337	4,978,395	8,816,136	3,837,741	18,057
Price	50	1,783	2,008,906	284,401	2,564,189	6,614,083	4,049,894	15,060
Racine	289	16,868	22,957,566	4,606,460	64,711,522	128,871,227	64,159,705	33,382
Richland	102	252	228,601	39,749	4,481,699	5,012,085	530,386	1,922
Rock	209	8,004	9,248,391	1,713,905	24,151,184	42,924,466	18,773,282	14,839
Rusk	46	1,377	1,246,737	175,136	1,855,638	3,867,063	2,011,425	11,858
St. Croix	76	520	618,198	22,176	4,497,793	5,411,181	913,388	2,085
Sauk	116	864	744,280	195,870	6,399,531	8,227,836	1,828,305	3,471
Sawyer	16	467	409,743	18,522	343,026	938,687	595,661	1,554
Shawano	163	914	865,476	191,009	5,433,134	7,546,370	2,113,236	5,782
Sheboygan	419	8,597	8,505,467	1,927,160	29,328,660	50,212,672	20,884,012	20,598
Taylor	56	1,060	855,181	173,827	2,111,514	3,773,653	1,662,139	4,686
Trempealeau	51	88	80,532	12,077	3,074,969	3,426,045	351,076	1,774
Vernon	67	113	107,424	19,087	3,212,296	3,520,866	308,570	1,396
Vilas	13	834	776,199	68,233	507,354	1,722,762	1,215,408	2,645
Walworth	88	1,014	945,372	343,457	9,809,105	13,113,214	3,304,109	2,778
Washburn	14	134	138,800	1,778	320,757	531,259	210,502	608
Washington	159	1,980	2,095,058	250,811	10,160,927	15,593,631	5,432,704	4,619
Waukesha	165	3,398	3,806,309	1,089,091	18,514,134	27,839,547	9,325,413	12,086
Waupaca	151	2,026	1,960,299	1,303,247	13,527,699	18,265,714	4,738,015	4,816
Waushara	35	341	386,616	12,558	1,070,038	1,703,667	633,629	1,995
Winnebago	313	9,582	8,800,240	2,368,677	28,700,902	50,584,103	21,883,201	36,436
Wood	133	2,486	2,022,405	871,040	8,609,619	14,532,516	5,922,897	36,293

TABLE 3.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries	10,393	263,949	100.0	$1,846,984	100.0	$719,709	100.0
Slaughtering and meat packing	21	3,218	1.2	102,182	5.5	12,278	1.7
Automobiles	15	8,907	3.4	95,030	5.1	33,272	4.6
Leather, tanned, curried, and finished	25	6,825	2.6	94,762	5.1	25,256	3.5
Cheese	2,323	1,912	0.7	91,463	5.0	7,113	1.0
Engines, steam, gas, and water	36	17,782	6.7	90,953	4.9	45,886	6.4
Foundry and machine-shop products	429	18,635	7.1	86,693	4.7	50,585	7.0
Paper and wood pulp	57	12,789	4.8	80,328	4.3	35,128	4.9
Condensed milk	51	2,744	1.0	73,342	4.0	12,054	1.7
Flour-mill and gristmill products	221	1,348	0.5	58,304	3.2	6,558	0.9
Lumber and timber products	372	21,795	8.3	57,221	3.1	35,830	5.0
Butter	498	1,317	0.5	56,642	3.1	4,296	0.6
Boots and shoes, not including rubber boots and shoes	62	7,598	2.9	44,374	2.4	16,671	2.3
Agricultural implements	34	5,237	2.0	43,623	2.4	25,138	3.5
Furniture	107	10,463	4.0	41,501	2.2	23,290	3.2
Knit goods	72	8,736	3.3	40,778	2.2	16,561	2.3
Cars and general shop construction and repairs by steam-railroad companies	58	12,491	4.7	36,791	2.0	17,833	2.5
Shipbuilding, steel	7	6,658	2.5	36,628	2.0	19,192	2.7
Rubber tires, tubes, and rubber goods, not elsewhere specified	8	4,557	1.7	36,369	2.0	16,449	2.3
Liquors, malt	77	2,815	1.1	35,830	1.9	24,347	3.4
Iron and steel, steel works and rolling mills	12	3,929	1.5	28,393	1.5	14,047	1.9
Confectionery and ice cream	150	4,123	1.6	24,389	1.3	9,969	1.4
Automobile bodies and parts	80	4,678	1.8	24,351	1.3	10,933	1.5
Electrical machinery, apparatus, and supplies	43	5,875	2.2	23,636	1.3	14,268	2.0
Brass and bronze products	36	2,778	1.1	22,510	1.2	7,179	1.0
Lumber, planing-mill products, not including planing mills connected with sawmills	167	4,422	1.7	20,547	1.1	9,232	1.3
Bread and other bakery products	742	2,546	1.0	20,130	1.1	7,134	1.0
Stamped and enameled ware, not elsewhere specified	8	3,512	1.3	19,600	1.1	11,364	1.6
Malt	20	484	0.2	18,064	1.0	3,266	0.5
Clothing, men's	59	3,386	1.3	17,051	0.9	6,723	0.9
Canning and preserving, fruits and vegetables	103	2,737	1.0	17,036	0.9	6,920	1.0
Printing and publishing, newspapers and periodicals	529	2,680	1.0	14,640	0.8	10,272	1.4
Aluminum manufactures	13	2,147	0.8	14,174	0.8	6,017	0.8
Food preparations, not elsewhere specified	42	921	0.3	13,142	0.7	5,186	0.7
Boxes, wooden packing, except cigar boxes	66	2,605	1.0	11,114	0.6	4,738	0.7
Copper, tin, and sheet-iron work	199	1,302	0.5	10,669	0.6	4,274	0.6
Machine tools	24	2,352	0.9	9,415	0.5	6,816	0.9
Carriages and wagons, including repairs	118	1,454	0.6	9,316	0.5	4,881	0.7
Soap	11	691	0.3	8,909	0.5	3,189	0.4
Structural ironwork, not made in steel works or rolling mills	21	1,308	0.5	8,547	0.5	4,001	0.6
Paper goods, not elsewhere specified	17	1,106	0.4	8,222	0.4	2,741	0.4
Gas, illuminating and heating	34	1,294	0.5	8,153	0.4	4,578	0.6
Printing and publishing, book and job	261	2,125	0.8	7,970	0.4	4,835	0.7
Shipbuilding, wooden, including boat building	28	1,197	0.5	$7,535	0.4	$4,605	0.6
Automobile repairing	673	1,738	0.7	6,865	0.4	3,923	0.5
Gloves and mittens, leather	28	1,728	0.7	6,773	0.4	2,506	0.3
Paints	9	372	0.1	6,702	0.4	1,652	0.2
Tobacco, cigars and cigarettes	541	1,696	0.6	5,889	0.3	3,302	0.5
Woolen and worsted goods	24	1,070	0.4	5,495	0.3	2,157	0.3
Saddlery and harness	43	441	0.2	5,143	0.3	1,851	0.3
Boxes, paper and other, not elsewhere specified	24	1,636	0.6	5,095	0.3	2,640	0.4
Coal-tar products	5	827	0.3	4,983	0.3	2,737	0.4
Mineral and soda waters	182	468	0.2	4,904	0.3	2,806	0.4
Marble and stone work	131	1,287	0.5	4,726	0.2	3,022	0.4
Trunks and valises	18	933	0.4	4,724	0.2	2,336	0.3
Stoves and hot-air furnaces	10	858	0.3	4,129	0.2	1,863	0.3
Tobacco, chewing and smoking, and snuff	11	263	0.1	4,119	0.2	2,146	0.3
Sausage, not made in slaughtering and meat-packing establishments	28	244	0.1	4,024	0.2	984	0.1
Phonographs and graphophones	9	898	0.3	3,862	0.2	2,016	0.3
Coffee, roasting and grinding	12	156	0.1	3,464	0.2	609	0.1
Millinery and lace goods, not elsewhere specified	13	851	0.3	3,353	0.2	1,756	0.2
Sugar, beet	4	334	0.1	3,246	0.2	1,187	0.2
Clothing, women's	29	844	0.3	3,221	0.2	1,207	0.2
Dairymen's, poultrymen's, and apiarists' supplies	33	501	0.2	3,065	0.2	1,404	0.2
Wooden goods, not elsewhere specified	9	832	0.3	3,064	0.2	1,824	0.3
Mattresses and spring beds, not elsewhere specified	25	569	0.2	3,008	0.2	1,413	0.2
Shirts	6	457	0.2	2,880	0.2	1,013	0.1
Mats and matting, from cocoa fiber, grass, and coir	5	648	0.2	2,822	0.2	1,566	0.2
Musical instruments, pianos	7	448	0.2	2,670	0.1	1,186	0.2
Coffins, burial cases, and undertakers' goods	8	503	0.2	2,663	0.1	1,601	0.2
Cars and general shop construction and repairs by electric-railroad companies	17	579	0.2	2,623	0.1	917	0.1
Plumbers' supplies, not elsewhere specified	9	615	0.2	2,444	0.1	1,168	0.2
Cleansing and polishing preparations	14	120	(1)	2,164	0.1	1,281	0.2
Lithographing	12	438	0.2	2,079	0.1	1,187	0.2
Chemicals	30	187	0.1	2,074	0.1	945	0.1
Refrigerators	7	544	0.2	2,022	0.1	1,041	0.1
Fur goods	34	280	0.1	1,992	0.1	842	0.1
Clothing, horse	5	183	0.1	1,908	0.1	685	0.1
Wirework, not elsewhere specified	13	269	0.1	1,826	0.1	1,030	0.1
Tools, not elsewhere specified	34	489	0.2	1,702	0.1	1,199	0.2
Steam fittings and steam and hot-water heating apparatus	6	589	0.2	1,633	0.1	1,104	0.2
Upholstering materials, not elsewhere specified	12	365	0.1	1,624	0.1	706	0.1
Pumps, not including power pumps	6	400	0.2	1,526	0.1	730	0.1
Patent medicines and compounds	50	124	(1)	1,516	0.1	835	0.1
All other industries [2]	1,001	22,686	8.6	138,634	7.5	60,417	8.4

[1] Less than one-tenth of 1 per cent.

[2] Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are 20 having products in excess of some for which figures are shown in the table. These industries are as follows: "Bags, other than paper, not including bags made in textile mills"; "bags, paper, exclusive of those made in paper mills"; "boots and shoes, rubber"; "coke, not including gas-house coke"; "explosives"; "glue, other than fish"; "iron and steel, blast furnaces"; "iron and steel forgings, not made in steel works or rolling mills"; "matches"; "motorcycles, bicycles, and parts"; "oil, linseed"; "oleomargarine and other butter substitutes"; "ordnance and accessories"; "roofing materials"; "springs, steel, automobile, not made in steel works or rolling mills"; "steam packing"; "stoves, gas and oil"; "tinware, not elsewhere specified"; "varnishes"; and "wire."

TABLE 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL. Male.	PER CENT OF TOTAL. Female.
All classes	1919	317,899	265,652	52,247	83.6	16.4
	1914	230,273	199,232	31,041	86.5	13.5
	1909	213,426	186,350	27,076	87.3	12.7
Proprietors and officials	1919	21,686	21,026	660	97.0	3.0
	1914	15,021	14,601	420	97.2	2.8
	1909	14,622	14,294	328	97.8	2.2
Proprietors and firm members	1919	7,951	7,732	219	97.2	2.8
	1914	7,425	7,144	281	96.2	3.8
	1909	8,556	8,327	229	97.3	2.7
Salaried officers of corporations	1919	4,637	4,466	171	96.3	3.7
	1914	3,127	3,039	88	97.2	2.8
	1909	2,351	2,299	52	97.8	2.2
Superintendents and managers	1919	9,098	8,828	270	97.0	3.0
	1914	4,469	4,418	51	98.9	1.1
	1909	3,715	3,668	47	98.7	1.3
Clerks and other subordinate salaried employees.	1919	32,264	20,988	11,276	65.1	34.9
	1914	20,942	16,100	4,842	76.9	23.1
	1909	16,221	12,955	3,266	79.9	20.1
Wage earners (average number)	1919	263,949	223,638	40,311	84.7	15.3
	1914	194,310	168,531	25,779	86.7	13.3
	1909	182,583	159,101	23,482	87.1	12.9
16 years of age and over	1919	257,262	220,124	37,138	85.6	14.4
	1914	191,301	166,800	24,501	87.2	12.8
	1909	178,316	156,734	21,582	87.9	12.1
Under 16 years of age	1919	6,687	3,514	3,173	52.5	47.5
	1914	3,009	1,731	1,278	57.5	42.5
	1909	4,267	2,367	1,900	55.5	44.5

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914.

INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL. 16 years of age and over. Male.	PER CENT OF TOTAL. 16 years of age and over. Female.	PER CENT OF TOTAL. Under 16 years of age.
All industries	1919	263,949	83.4	14.1	2.5
	1914	194,310	85.8	12.6	1.5
	1909	182,583	85.8	11.8	2.3
Agricultural implements	1919	5,237	99.6	0.2	0.2
	1914	3,143	97.1	2.8	0.1
Aluminum manufactures [1]	1919	2,147	70.7	21.5	7.8
Automobile bodies and parts	1919	4,678	95.4	4.4	0.3
	1914	1,722	96.7	2.8	0.4
Automobiles	1919	8,907	95.8	4.1	0.1
	1914	3,167	99.8	0.1	(2)
Automobile repairing	1919	1,738	97.9	1.2	0.9
	1914	104	97.1	2.9	.....
Boots and shoes, not including rubber boots and shoes.	1919	7,598	54.1	37.2	8.7
	1914	5,772	62.7	33.6	3.7
Boxes, paper and other, not elsewhere specified.	1919	1,636	35.2	48.0	16.7
	1914	1,319	39.6	49.9	10.5
Boxes, wooden packing, except cigar boxes	1919	2,605	86.4	11.9	1.7
	1914	2,369	91.5	5.4	3.0
Brass and bronze products	1919	2,778	95.4	3.8	0.9
	1914	1,122	99.3	0.6	0.1
Bread and other bakery products	1919	2,546	62.6	29.5	7.9
	1914	2,197	76.5	22.2	1.3
Butter	1919	1,317	95.9	3.8	0.3
	1914	1,606	98.8	0.8	0.4
Canning and preserving, fruits and vegetables	1919	2,737	70.3	28.0	1.8
	1914	2,521	69.7	25.5	4.8
Carriages and wagons, including repairs	1919	1,454	98.6	0.6	0.8
	1914	2,548	98.5	1.4	0.2
Cars and general shop construction and repairs by steam-railroad companies.	1919	12,491	99.1	0.9	.....
	1914	9,011	99.9	0.1	.....
Cheese	1919	1,912	97.0	2.0	1.0
	1914	1,330	97.8	1.6	0.6
Clothing, men's	1919	3,386	23.1	69.4	7.5
	1914	3,204	24.4	73.1	2.4
Condensed milk	1919	2,744	84.4	15.3	0.3
	1914	781	77.8	21.8	0.4
Confectionery and ice cream	1919	4,123	31.0	50.7	18.2
	1914	2,429	34.3	53.7	11.9
Copper, tin, and sheet-iron work	1919	1,302	98.2	1.5	0.3
	1914	752	99.7	0.1	0.1
Electrical machinery, apparatus, and supplies.	1919	5,875	71.0	26.6	2.4
	1914	2,115	91.7	7.2	1.0
Engines, steam, gas, and water	1919	17,782	97.0	2.6	0.4
	1914	6,010	99.6	0.4	0.1
Flour-mill and gristmill products	1919	1,348	99.4	0.4	0.2
	1914	1,116	99.3	0.4	0.4
Foundry and machine-shop products [3]	1919	21,056	96.4	2.9	0.7
	1914	16,842	98.9	0.9	0.2
Furniture	1919	10,463	87.2	8.5	4.3
	1914	11,015	94.6	3.3	2.2
Gas, illuminating and heating	1919	1,294	99.4	0.4	0.2
	1914	1,240	100.0	.....	.....
Gloves and mittens, leather	1919	1,728	31.1	58.6	10.3
	1914	1,711	33.4	62.7	3.9
Iron and steel, steel works and rolling mills	1919	3,929	99.7	0.1	0.2
	1914	2,029	99.8	.....	0.2
Knit goods	1919	8,736	20.1	66.6	13.3
	1914	6,244	21.8	72.6	5.6
Leather, tanned, curried, and finished	1919	6,825	90.4	9.1	0.5
	1914	5,869	94.6	5.3	(2)
Liquors, malt	1919	2,815	96.2	3.4	0.4
	1914	5,414	97.2	2.8	(2)
Lumber and timber products	1919	21,795	97.1	2.5	0.4
	1914	24,941	99.0	0.6	0.4
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	4,422	94.4	4.4	1.2
	1914	4,972	98.0	1.4	0.6
Marble and stone work	1919	1,287	99.8	0.2	0.1
	1914	1,390	99.6	0.1	0.3
Paper and wood pulp	1919	12,789	92.2	7.8	0.1
	1914	8,968	89.8	10.1	0.1
Paper goods, not elsewhere specified	1919	1,106	63.7	33.5	2.8
	1914	188	54.3	45.7	.....
Printing and publishing, book and job	1919	2,125	68.3	28.4	3.3
	1914	1,765	73.9	21.6	4.4
Printing and publishing, newspapers and periodicals.	1919	2,680	69.4	25.0	5.6
	1914	2,848	70.5	23.2	6.3
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	4,557	87.0	12.2	0.7
	1914	1,637	90.0	9.7	0.2
Shipbuilding, steel	1919	6,658	99.9	(2)	.....
	1914	504	99.9	.....	(2)
Shipbuilding, wooden, including boat building.	1919	1,197	100.0	.....	.....
	1914	191	99.9	(2)	.....
Slaughtering and meat packing	1919	3,218	86.2	13.3	0.5
	1914	2,011	94.2	4.2	1.6
Stamped and enameled ware, not elsewhere specified.	1919	3,512	85.6	11.8	2.6
	1914	2,598	84.8	14.5	.....
Structural ironwork, not made in steel works or rolling mills.	1919	1,308	100.0	.....	.....
	1914	1,400	99.8	.....	0.2
Tobacco, cigars and cigarettes	1919	1,696	67.3	32.5	0.1
	1914	2,289	72.9	26.5	0.6
Woolen and worsted goods	1919	1,070	43.7	52.1	4.1
	1914	795	47.4	47.4	5.2
All other industries	1919	41,342	76.2	20.5	3.3
	1914	33,111	79.6	18.1	2.4

[1] Not shown separately in 1914.
[2] Less than one-tenth of 1 per cent.
[3] Includes "iron and steel, tempering and welding" and "machine tools."

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			16 years of age and over.						Under 16 years of age.					
				Male.			Female.								
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Appleton	2,691	2,144	2,125	2,207	1,785	1,687	462	344	400	22	15	38	$17,166,932	$7,557,673	$6,734,405
Ashland	1,080	797	1,116	1,045	765	1,090	35	28	15	.....	4	11	5,004,270	1,827,032	2,748,438
Beloit	4,623	3,527	2,986	4,207	3,249	2,774	357	270	188	59	8	24	21,105,232	6,927,601	5,885,601
Eau Claire	3,301	2,315	2,524	2,865	2,114	2,327	425	174	177	11	27	20	15,791,554	6,773,829	5,854,733
Fond du Lac	3,239	1,925	2,707	2,506	1,594	2,271	637	313	376	96	18	60	22,337,653	6,760,850	8,226,908
Green Bay	4,798	2,724	2,579	4,039	2,318	2,267	724	390	273	35	16	39	28,188,292	6,797,505	6,235,209
Janesville	2,803	1,495	1,451	2,138	1,088	1,001	630	386	441	35	21	9	16,023,213	5,659,226	5,155,731
Kenosha	13,045	7,155	6,449	11,498	6,237	5,598	1,322	858	683	225	60	168	103,725,717	28,341,156	23,181,672
La Crosse	4,503	3,340	3,329	3,063	2,474	2,370	1,248	806	896	192	60	63	24,935,983	14,739,232	14,103,148
Madison	3,189	2,084	1,792	2,575	1,747	1,593	447	323	170	167	14	29	16,823,242	6,206,970	5,467,105
Manitowoc	4,078	2,012	1,525	3,402	1,660	1,255	515	294	242	161	58	28	27,761,586	8,460,694	5,938,887
Marinette	2,648	2,112	1,491	2,163	1,846	1,347	283	249	143	202	17	1	11,027,838	4,674,473	3,309,378
Milwaukee	84,222	61,839	59,502	63,111	48,562	46,981	17,503	11,722	10,118	3,608	1,555	2,403	576,161,312	223,555,142	208,323,630
Oshkosh	6,190	5,782	5,778	4,927	4,697	4,692	1,007	1,001	774	256	84	312	27,571,597	13,889,936	14,739,252
Racine	15,812	10,079	8,381	13,992	8,647	7,132	1,638	1,201	1,106	182	231	143	120,027,399	43,632,384	24,672,669
Sheboygan	6,467	7,152	5,988	5,069	6,307	5,030	1,113	632	683	285	213	275	31,497,124	17,509,450	11,299,029
Stevens Point	1,231	.....	.....	924	.....	.....	214	.....	.....	93	.....	.....	4,233,674	.....	.....
Superior	6,162	2,121	1,847	5,981	1,992	1,723	168	128	118	13	1	6	44,043,214	11,662,566	6,574,457
Waukesha	2,339	.....	.....	2,077	.....	.....	224	.....	.....	38	.....	.....	17,029,441	.....	.....
Wausau	2,320	2,492	2,092	1,974	2,168	1,948	321	306	71	25	18	73	13,395,166	7,325,304	6,286,532
West Allis	6,970	.....	.....	6,807	.....	.....	145	.....	.....	18	.....	.....	36,477,071	.....	.....

TABLE 7.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.	NUMBER.[1]			PER CENT OF MAXIMUM.			MONTH.	NUMBER.[1]			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January	258,127	197,347	174,937	90.9	96.0	90.9	July	268,411	198,170	184,290	94.5	96.4	95.7
February	257,090	203,166	178,091	90.5	98.9	92.5	August	266,925	193,475	185,556	93.9	94.1	96.4
March	255,117	205,512	179,007	89.8	100.0	93.0	September	267,343	190,652	185,592	94.1	92.8	96.4
April	250,475	199,210	*173,561*	88.2	96.9	90.1	October	274,142	187,342	188,664	96.5	91.2	98.0
May	*250,122*	196,041	176,625	88.0	95.4	91.7	November	279,177	182,227	191,447	98.3	88.7	99.4
June	256,340	196,523	180,691	90.2	95.6	93.9	December	284,119	*182,055*	192,527	100.0	88.6	100.0

[1] The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by *italic* figures.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

[The month of maximum employment for each industry is indicated by **bold-faced** figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries	263,949	258,127	257,090	255,117	250,475	*250,122*	256,340	268,411	266,925	267,343	274,142	279,177	**284,119**	88.0
Males	223,638	219,232	218,728	217,134	*212,860*	212,989	217,760	225,544	225,101	225,921	231,645	235,904	**240,838**	88.4
Females	40,311	38,895	38,362	37,983	37,615	*37,133*	38,580	42,867	41,824	41,422	42,497	43,273	**43,281**	85.8
Agricultural implements	5,237	5,190	5,627	**5,681**	5,625	5,368	5,474	5,307	5,259	5,302	*4,365*	4,612	5,034	76.8
Aluminum manufactures	2,147	2,065	2,098	2,140	2,048	2,118	2,194	2,255	2,067	*1,830*	2,060	2,352	**2,537**	72.1
Automobile bodies and parts	4,678	3,925	*3,821*	3,899	4,212	4,519	4,629	4,731	4,871	5,096	5,437	**5,523**	5,473	69.2
Automobiles	8,907	8,132	*7,914*	8,410	8,931	9,193	9,213	9,222	9,073	8,975	**9,307**	9,270	9,244	85.0
Automobile repairing	1,738	*1,485*	1,509	1,582	1,698	1,781	1,827	1,897	**1,909**	1,866	1,818	1,756	1,728	77.8
Boots and shoes, not including rubber boots and shoes	7,598	7,169	7,172	*7,105*	7,193	7,345	7,527	7,697	7,843	7,798	8,048	**8,146**	8,133	87.2
Boxes, paper and other, not elsewhere specified	1,636	*1,246*	1,412	1,531	1,543	1,467	1,537	1,756	1,795	1,697	1,821	1,913	**1,914**	65.1
Boxes, wooden packing, except cigar boxes	2,605	2,492	2,367	2,393	*2,304*	2,371	2,591	2,910	2,961	2,743	2,719	2,673	2,736	77.8
Brass and bronze products	2,778	2,898	2,692	*2,502*	2,606	2,704	2,673	2,609	2,744	2,953	3,016	3,011	2,928	83.0
Bread and other bakery products	2,546	2,360	*2,354*	2,399	2,436	2,456	2,468	2,596	2,631	2,662	2,668	2,707	**2,815**	83.6
Butter	1,317	1,223	*1,216*	1,226	1,294	1,352	1,411	1,433	1,416	1,362	1,315	1,281	1,275	84.9
Canning and preserving, fruits and vegetables	2,737	880	797	*756*	922	1,239	3,602	10,976	5,223	3,734	2,216	1,642	877	6.7
Carriages and wagons, including repairs	1,454	1,558	1,444	1,440	1,382	*1,349*	1,358	1,377	1,462	1,497	1,540	1,552	1,489	86.6
Cars and general shop construction and repairs by steam-railroad companies	12,491	12,367	12,813	12,593	12,785	12,637	12,648	**12,827**	12,813	12,076	*12,049*	12,136	12,148	93.9
Cheese	1,912	*1,333*	1,365	1,505	1,914	2,230	**2,328**	2,304	2,267	2,173	2,035	1,871	1,619	57.3
Clothing, men's	3,386	3,019	*2,878*	2,918	2,949	3,053	3,223	3,538	3,666	3,688	3,818	3,919	**3,963**	72.6
Condensed milk	2,744	*2,477*	2,620	2,666	2,788	2,838	3,181	3,025	2,772	2,643	2,672	2,586	2,660	77.9
Confectionery and ice cream	4,123	*3,708*	3,974	3,984	3,876	3,750	3,800	3,909	4,164	4,312	4,612	**4,714**	4,673	78.7
Copper, tin, and sheet-iron work	1,302	1,070	*1,037*	1,053	1,111	1,250	1,289	1,365	1,447	1,463	1,482	1,574	1,483	65.9
Electrical machinery, apparatus, and supplies	5,875	5,727	5,671	5,456	5,366	4,945	*4,915*	5,409	5,839	6,200	6,872	6,981	**7,119**	69.0
Engines, steam, gas, and water	17,782	19,386	18,711	18,148	17,434	15,820	*14,626*	15,256	16,349	17,586	19,581	19,794	**20,693**	70.7
Flour-mill and gristmill products	1,348	1,212	*1,187*	1,221	1,341	1,344	1,350	1,215	1,383	1,442	1,558	1,469	1,454	76.2
Foundry and machine-shop products	18,635	19,090	18,843	18,262	*17,093*	17,308	17,432	17,970	18,418	18,841	19,473	20,091	**20,794**	82.2
Furniture	10,463	*9,263*	9,408	9,672	9,552	9,682	10,163	10,811	11,315	11,402	11,206	11,456	**11,626**	79.7
Gas, illuminating and heating	1,294	1,228	*1,174*	1,207	1,310	1,341	1,341	1,351	1,343	1,313	1,320	1,286	1,314	86.9
Gloves and mittens, leather	1,728	**1,972**	1,748	1,694	1,626	*1,616*	1,673	1,692	1,699	1,706	1,767	1,764	1,779	81.9
Iron and steel, steel works and rolling mills	3,929	**4,794**	4,274	4,286	3,634	*3,381*	3,391	3,590	3,704	3,797	3,541	4,308	4,448	70.5
Knit goods	8,736	8,508	8,410	*8,278*	8,428	8,379	8,506	8,904	8,867	8,855	9,087	9,302	**9,308**	88.9
Leather, tanned, curried, and finished	6,825	6,780	6,851	6,946	6,862	6,922	*6,676*	6,810	6,803	6,784	6,812	6,836	6,818	96.1
Liquors, malt	2,815	2,633	2,668	2,770	2,758	2,926	3,097	3,289	3,359	3,071	2,881	2,258	*2,070*	61.6
Lumber and timber products	21,795	24,906	25,235	24,113	20,283	19,785	20,271	*18,827*	18,843	19,223	21,237	22,622	**26,195**	71.9
Lumber, planing-mill products, not including planing mills connected with sawmills	4,422	*3,838*	3,958	3,964	4,023	4,157	4,416	4,607	4,744	4,693	4,874	**4,907**	4,883	78.2
Machine tools	2,352	2,505	2,485	2,408	*1,886*	1,905	2,080	2,203	2,359	2,488	2,480	2,722	2,703	69.3
Marble and stone work	1,287	*974*	1,010	1,099	1,308	1,330	1,413	1,430	1,395	**1,436**	1,433	1,400	1,216	67.8
Paper and wood pulp	12,789	12,894	12,914	12,352	*12,133*	12,301	12,471	12,769	12,937	13,007	13,061	13,235	**13,394**	90.6
Paper goods, not elsewhere specified	1,106	1,032	978	*939*	1,018	960	1,038	1,123	1,187	1,219	1,252	1,231	**1,295**	72.5
Printing and publishing, book and job	2,125	*1,858*	1,929	1,975	2,011	2,017	2,057	2,115	2,144	2,210	2,307	2,385	**2,492**	74.6
Printing and publishing, newspapers and periodicals	2,680	*2,611*	2,623	2,628	2,640	2,669	2,664	2,696	2,681	2,684	2,725	2,744	**2,795**	93.4
Rubber tires, tubes, and rubber goods, not elsewhere specified	4,557	*4,302*	4,397	4,466	4,618	4,498	4,451	4,450	4,556	4,657	4,686	4,818	**4,785**	89.3
Shipbuilding, steel	6,658	5,958	6,307	6,408	6,791	6,641	6,745	6,959	7,178	7,407	**7,473**	6,531	*5,498*	73.6
Shipbuilding, wooden, including boat building	1,197	1,012	1,130	1,147	1,380	1,545	1,436	1,320	1,306	1,167	1,071	975	*875*	56.6
Slaughtering and meat packing	3,218	**4,197**	3,639	3,220	2,752	3,001	3,473	3,329	2,543	*2,093*	2,566	3,683	4,120	49.9
Stamped and enameled ware, not elsewhere specified	3,512	3,323	3,273	3,219	3,236	*3,213*	3,360	3,415	3,640	3,560	3,811	4,046	**4,048**	79.4
Structural ironwork, not made in steel works or rolling mills	1,308	1,401	1,276	1,165	1,172	*1,123*	1,200	1,302	1,284	1,376	1,462	**1,502**	1,433	74.8
Tobacco, cigars and cigarettes	1,696	1,689	1,704	1,704	1,696	1,676	1,670	1,626	*1,594*	1,630	1,758	1,765	**1,840**	86.6
Woolen and worsted goods	1,070	1,021	*802*	925	996	1,050	1,089	1,120	1,144	1,137	1,170	1,183	**1,203**	66.7
All other industries	41,411	39,416	*39,370*	39,682	39,511	39,567	40,363	41,089	41,928	42,489	43,680	44,645	**45,192**	87.1
Industries showing large proportion of females.														
Aluminum manufactures	529	*438*	483	513	517	530	570	584	541	497	524	556	**595**	73.6
Boots and shoes, not including rubber boots and shoes	3,085	2,962	2,906	*2,890*	2,933	2,988	3,060	3,103	3,143	3,113	3,270	3,315	**3,337**	86.6
Boxes, paper and other, not elsewhere specified	966	*745*	855	952	933	854	888	1,029	**1,073**	986	1,044	1,112	1,121	66.5
Bread and other bakery products	758	692	*681*	709	719	704	747	765	773	782	813	**860**	851	79.2
Canning and preserving, fruits and vegetables	789	175	134	80	*63*	90	869	**3,645**	1,905	1,278	696	418	115	1.7
Clothing, men's	2,527	2,274	*2,127*	2,165	2,209	2,269	2,398	2,607	2,734	2,764	2,873	2,936	**2,968**	71.7
Clothing, women's	754	*676*	719	701	720	751	732	750	746	770	822	834	827	81.1
Condensed milk	423	383	414	406	441	447	507	494	425	411	401	*367*	380	72.4
Confectionery and ice cream	2,659	2,455	2,651	2,633	2,546	2,426	*2,383*	2,428	2,609	2,733	2,977	3,041	3,026	76.6
Electrical machinery, apparatus, and supplies	1,587	1,559	1,579	1,498	1,376	1,291	*1,248*	1,425	1,559	1,666	1,913	1,992	1,938	62.7
Furniture	984	838	*789*	825	864	909	937	1,042	1,088	1,095	1,119	1,154	1,188	69.1
Gloves and mittens, leather	1,136	1,313	1,153	1,127	1,082	*1,073*	1,105	1,116	1,102	1,110	1,160	1,143	1,148	81.7
Knit goods	6,639	6,474	6,405	*6,288*	6,370	6,322	6,416	6,792	6,770	6,733	6,918	7,085	**7,095**	88.6
Leather, tanned, curried, and finished	621	689	649	608	592	605	573	632	662	673	609	595	*565*	82.0
Millinery and lace goods, not elsewhere specified	622	753	820	834	749	450	*436*	511	524	508	504	648	727	52.3
Paper and wood pulp	996	1,005	980	934	*902*	943	978	1,012	1,044	1,045	**1,046**	1,028	1,035	86.2
Printing and publishing, book and job	625	*581*	577	574	579	579	597	583	591	635	685	789	750	71.1
Printing and publishing, newspapers and periodicals	684	674	668	675	681	680	676	679	*664*	667	698	701	745	89.1
Rubber tires, tubes, and rubber goods, not elsewhere specified	572	668	562	*528*	595	554	552	538	541	563	569	594	600	79.0
Stamped and enameled ware, not elsewhere specified	458	*404*	507	489	449	449	437	431	423	417	454	545	491	74.9
Tobacco, cigars and cigarettes	552	567	563	561	555	545	529	518	521	*516*	567	582	**600**	86.1
Woolen and worsted goods	587	545	*458*	506	552	577	604	617	634	634	**646**	636	635	70.0

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

[The month of maximum employment for each industry is indicated by **bold-faced** figures and that of minimum employment by *italic* figures.]

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Total for cities	181,711	175,677	175,288	174,961	174,213	*173,006*	174,936	180,789	185,267	186,933	191,420	193,151	**194,891**	88.8
Males	149,612	144,359	144,267	144,381	143,924	*143,274*	144,669	148,617	152,660	154,077	157,199	158,204	**159,713**	89.7
Females	32,099	31,318	31,021	30,580	30,289	*29,732*	30,267	32,172	32,607	32,856	34,221	34,947	**35,178**	84.5
APPLETON	2,691	2,643	2,651	2,658	*2,642*	2,660	2,723	2,753	2,696	2,693	2,694	2,690	**2,789**	94.7
Males	2,225	*2,182*	2,193	2,223	2,224	2,222	2,275	2,270	2,219	2,215	2,201	2,192	**2,284**	95.5
Females	466	461	458	435	*418*	438	448	483	477	478	493	498	**505**	82.8
ASHLAND	1,080	1,035	1,003	1,059	*906*	1,035	977	962	1,113	1,149	1,232	1,115	**1,374**	65.9
Males	1,045	1,002	973	1,028	*872*	1,001	943	927	1,074	1,111	1,195	1,077	**1,337**	65.2
Females	35	33	*30*	31	34	34	34	35	39	38	37	38	**37**	76.9
BELOIT	4,623	4,581	*3,932*	3,993	4,215	4,236	4,292	4,412	4,446	4,851	5,192	5,262	**6,014**	66.2
Males	4,259	4,253	*3,651*	3,678	3,883	3,899	3,931	4,053	4,094	4,491	4,828	4,880	**5,467**	66.8
Females	364	328	331	*315*	332	337	361	359	352	360	364	382	**547**	57.6
EAU CLAIRE	3,301	3,505	3,444	3,346	2,946	*2,797*	2,912	3,156	3,204	3,351	3,455	3,738	**3,758**	74.4
Males	2,876	3,083	3,032	2,931	2,565	*2,438*	2,537	2,678	2,758	2,838	3,021	3,298	**3,333**	73.1
Females	425	422	412	415	381	*359*	375	478	446	513	434	440	**425**	70.0
FOND DU LAC	3,239	*3,016*	3,088	3,078	3,079	3,182	3,216	3,279	3,343	3,338	3,373	**3,450**	3,426	87.4
Males	2,576	*2,352*	2,413	2,425	2,439	2,533	2,595	2,689	2,714	2,675	2,671	2,716	**2,690**	86.6
Females	663	664	675	653	640	649	621	*590*	629	663	702	734	**736**	80.2
GREEN BAY	4,798	4,579	4,593	*4,464*	4,674	4,803	4,740	4,860	4,964	**5,168**	5,053	4,955	4,723	86.4
Males	4,065	3,928	3,911	*3,804*	4,008	4,115	4,074	4,125	4,227	**4,320**	4,157	4,130	3,981	88.1
Females	733	*651*	682	660	666	688	666	735	737	848	**896**	825	742	72.7
JANESVILLE	2,803	2,034	*2,031*	2,117	2,229	2,348	2,458	2,591	3,009	3,288	3,780	**4,010**	3,741	50.6
Males	2,155	1,430	*1,412*	1,501	1,628	1,721	1,828	1,952	2,365	2,625	3,087	3,281	3,030	43.0
Females	648	604	619	616	*601*	627	630	639	644	663	693	729	**711**	82.4
KENOSHA	13,045	12,146	*11,736*	12,007	12,143	12,489	12,885	13,285	14,000	**14,240**	13,910	13,888	13,811	82.4
Males	11,629	10,663	*10,312*	10,615	10,796	11,114	11,546	11,881	12,621	**12,816**	12,454	12,397	12,333	80.5
Females	1,416	1,483	1,424	1,392	1,347	1,375	*1,339*	1,404	1,379	1,424	1,456	1,491	**1,478**	89.8
LA CROSSE	4,503	4,333	4,582	4,499	4,267	*4,125*	4,188	4,387	4,677	4,614	4,698	4,796	**4,870**	84.7
Males	3,181	3,049	3,292	3,232	3,079	*2,979*	2,989	3,093	3,244	3,222	3,275	3,312	**3,406**	87.5
Females	1,322	1,284	1,290	1,267	1,188	*1,146*	1,199	1,294	1,433	1,392	1,423	**1,484**	1,464	77.2
MADISON	3,189	3,631	3,534	3,435	*1,981*	2,035	2,458	2,941	3,156	3,473	3,815	3,886	**3,923**	50.5
Males	2,733	3,092	3,030	2,989	*1,609*	1,682	2,103	2,562	2,750	2,979	3,261	3,363	**3,376**	47.7
Females	456	539	504	446	372	*353*	355	379	406	494	**554**	523	547	63.7
MANITOWOC	4,078	3,522	3,487	3,565	4,215	4,101	4,464	**4,611**	4,475	4,589	4,386	4,077	*3,444*	74.7
Males	3,506	3,064	3,030	3,079	3,736	3,583	3,860	3,902	3,856	3,989	3,767	3,423	*2,783*	69.8
Females	572	458	*457*	486	479	518	604	**709**	619	600	619	654	661	64.5
MARINETTE	2,648	2,922	**2,939**	2,753	2,634	2,759	2,719	2,520	2,632	*2,385*	2,429	2,420	2,664	81.2
Males	2,198	2,448	**2,505**	2,355	2,272	2,366	2,280	2,069	2,152	*1,909*	1,936	1,915	2,169	76.2
Females	450	474	434	398	*362*	393	439	451	480	476	493	**505**	495	71.7
MILWAUKEE	84,222	80,918	80,996	*80,736*	81,439	80,981	81,120	84,272	86,014	86,024	88,375	89,630	**90,159**	89.6
Males	64,796	*62,130*	62,136	62,148	62,820	62,842	62,703	64,893	66,274	66,236	67,796	68,591	**68,983**	90.1
Females	19,426	18,788	18,860	18,588	18,619	*18,139*	18,417	19,379	19,740	19,788	20,579	21,039	**21,176**	85.7
OSHKOSH	6,190	5,951	*5,760*	5,936	5,865	5,788	5,999	6,160	6,230	6,281	6,553	6,760	**6,997**	82.3
Males	5,079	4,787	*4,768*	4,850	4,855	4,799	4,976	5,130	5,123	5,124	5,323	5,500	**5,713**	83.5
Females	1,111	1,164	992	1,086	1,010	*989*	1,023	1,030	1,107	1,157	1,230	1,260	**1,284**	77.0
RACINE	15,812	*14,611*	15,069	15,493	15,705	15,181	15,468	16,159	16,543	16,558	16,107	16,205	**16,645**	87.8
Males	14,094	*12,942*	13,476	13,904	14,051	13,618	13,917	14,345	14,640	**14,805**	14,260	14,372	14,798	87.4
Females	1,718	1,669	1,593	1,589	1,654	1,563	*1,551*	1,814	1,903	1,753	1,847	1,833	**1,847**	81.5
SHEBOYGAN	6,467	6,235	6,374	6,309	6,273	6,269	*6,098*	6,288	6,524	6,494	6,734	6,901	**7,105**	85.8
Males	5,318	5,130	5,283	5,237	5,217	5,212	*4,968*	5,059	5,314	5,330	5,518	5,677	**5,871**	84.6
Females	1,149	1,105	1,091	1,072	*1,056*	1,057	1,130	1,229	1,210	1,164	1,216	1,224	**1,234**	85.5
STEVENS POINT	1,231	1,133	*1,108*	1,111	1,175	1,195	1,277	**1,340**	1,310	1,286	1,281	1,309	1,247	82.7
Males	965	887	860	*847*	910	926	1,010	**1,064**	1,046	1,016	1,018	1,032	964	79.6
Females	266	*246*	248	264	265	269	267	276	264	270	263	277	**283**	86.9
SUPERIOR	6,162	6,180	6,505	**6,573**	6,544	6,298	6,217	5,887	5,969	5,969	6,312	5,944	*5,548*	84.4
Males	5,993	6,015	6,346	**6,427**	6,386	6,136	6,049	5,711	5,802	5,798	6,136	5,757	*5,353*	83.3
Females	169	165	159	*146*	158	162	168	176	167	171	176	187	**193**	75.6
WAUKESHA	2,339	2,531	2,466	2,296	2,130	1,949	*1,940*	2,027	2,412	2,488	2,603	2,571	**2,655**	73.1
Males	2,095	2,267	2,200	2,037	1,874	1,728	*1,715*	1,789	2,222	2,307	2,324	2,294	**2,383**	72.0
Females	244	264	266	259	256	221	225	238	190	*181*	**279**	277	272	64.9
WAUSAU	2,320	*1,972*	2,072	2,125	2,248	2,199	2,325	2,518	2,377	2,440	2,470	**2,549**	2,545	77.4
Males	1,999	*1,676*	1,767	1,833	1,971	1,929	2,042	2,153	2,099	2,123	2,122	2,134	2,139	77.8
Females	321	296	305	292	277	*270*	283	365	278	317	348	**415**	406	65.1
WEST ALLIS	6,970	8,199	7,868	7,408	6,903	6,576	6,460	6,381	*6,173*	6,254	6,968	6,995	7,455	75.3
Males	6,825	**7,979**	7,677	7,238	6,729	6,431	6,328	6,272	*6,066*	6,148	6,849	6,863	7,320	76.0
Females	145	**220**	191	170	174	145	132	109	107	*106*	119	132	135	48.2

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.[1]	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries	1919	263,949	8,654	14,589	59,331	38,428	22,582	69,551	43,505	7,309
	1914	194,310	(2)	(2)	27,905	9,135	18,461	62,102	66,958	9,749
	1909	182,583	(2)	(2)	12,057	4,420	20,756	40,010	93,072	12,268
Agricultural implements	1919	5,237	.....	.....	216	48	3	4,899	71	.....
	1914	3,143	(2)	(2)	4	65	88	802	2,183	1
Aluminum manufactures [3]	1919	2,147	.....	.....	.....	12	200	1,930	5	.....
Automobile bodies and parts	1919	4,678	531	.....	36	665	43	3,312	91	.....
	1914	1,722	(2)	(2)	82	128	51	1,274	187	.....
Automobiles	1919	8,907	.....	.....	269	4,217	.....	4,400	21	.....
	1914	3,167	(2)	(2)	1	.....	4	3,157	5	.....
Automobile repairing	1919	1,738	8	1	108	132	249	78	1,124	38
	1914	104	(2)	(2)	10	3	16	33	42	.....
Boots and shoes, not including rubber boots and shoes	1919	7,598	15	364	4,187	1,282	243	1,261	246	.....
	1914	5,772	(2)	(2)	308	16	528	2,412	2,508	.....
Boxes, paper and other, not elsewhere specified	1919	1,636	.....	.....	59	781	338	458	.....	.....
	1914	1,319	(2)	(2)	37	.....	178	1,041	63	.....
Boxes, wooden packing, except cigar boxes	1919	2,605	.....	7	52	.....	48	995	1,467	36
	1914	2,369	(2)	(2)	102	54	993	1,220	.....	.....
Brass and bronze products	1919	2,778	2	.....	7	107	66	2,419	177	.....
	1914	1,122	(2)	(2)	143	44	51	881	3	.....
Bread and other bakery products	1919	2,546	33	366	538	118	809	31	584	67
	1914	2,197	(2)	(2)	163	42	232	431	1,094	235
Butter	1919	1,317	36	5	211	46	92	179	488	260
	1914	1,606	(2)	(2)	129	39	84	149	759	446
Canning and preserving, fruits and vegetables	1919	2,737	27	.....	183	124	316	646	1,042	399
	1914	2,521	(2)	(2)	96	206	394	436	1,196	193
Carriages and wagons, including repairs	1919	1,454	8	.....	15	68	49	1,108	206	.....
	1914	2,548	(2)	(2)	16	78	89	1,849	516	.....
Cars and general shop construction and repairs by steam-railroad companies.	1919	12,491	.....	7,055	4,807	.....	294	194	141	.....
	1914	9,011	(2)	(2)	6,693	.....	729	121	1,156	312
Cheese	1919	1,912	19	6	133	23	51	205	294	1,181
	1914	1,330	(2)	(2)	79	24	109	102	330	676
Clothing, men's	1919	3,386	1,450	425	787	470	190	64	.....	.....
	1914	3,204	(2)	(2)	648	1,887	192	477	.....	.....
Condensed milk	1919	2,744	.....	.....	145	.....	223	503	677	1,196
	1914	781	.....	.....	.....	.....	50	.....	261	470
Confectionery and ice cream	1919	4,123	26	73	1,026	232	226	2,262	137	141
	1914	2,429	(2)	(2)	115	58	86	2,016	35	119
Copper, tin, and sheet-iron work	1919	1,302	273	25	158	86	72	587	101	.....
	1914	752	(2)	(2)	315	173	104	87	73	.....
Electrical machinery, apparatus, and supplies	1919	5,875	1,318	.....	2,951	1,088	111	407	.....	.....
	1914	2,115	(2)	(2)	3	56	685	1,345	26	.....
Engines, steam, gas, and water	1919	17,782	924	4,065	4,821	3,472	2,005	2,454	41	.....
	1914	6,010	(2)	(2)	91	4	216	5,400	299	.....
Flour-mill and gristmill products	1919	1,348	1	.....	257	2	262	29	788	9
	1914	1,116	(2)	(2)	108	1	76	6	722	203
Foundry and machine-shop products [4]	1919	21,056	90	371	3,466	4,452	2,582	8,259	1,264	572
	1914	16,842	(2)	(2)	700	928	592	10,965	3,101	556
Furniture	1919	10,463	16	6	191	354	655	5,457	3,283	501
	1914	11,015	(2)	(2)	176	59	1,209	4,600	4,970	1
Gas, illuminating and heating	1919	1,294	.....	34	47	.....	612	449	76	76
	1914	1,240	(2)	(2)	38	.....	27	44	350	781
Gloves and mittens, leather	1919	1,728	101	265	213	699	24	426	.....	.....
	1914	1,711	(2)	(2)	224	384	551	381	171	.....
Iron and steel, steel works and rolling mills	1919	3,929	.....	72	.....	433	150	2,253	.....	1,021
	1914	2,029	(2)	(2)	89	171	32	925	812	.....
Knit goods	1919	8,736	64	1	155	5,419	262	2,835	.....	.....
	1914	6,244	(2)	(2)	1,085	300	1,660	3,160	39	.....
Leather, tanned, curried, and finished	1919	6,825	.....	.....	591	4,564	97	985	588	.....
	1914	5,869	(2)	(2)	20	.....	67	1,319	4,448	15
Liquors, malt	1919	2,815	.....	.....	2,481	.....	160	8	166	.....
	1914	5,414	(2)	(2)	3,674	60	1,038	37	562	43
Lumber and timber products	1919	21,795	5	3	66	11	917	40	20,746	7
	1914	24,941	(2)	(2)	1,627	1	1,085	501	21,369	358
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	4,422	229	.....	398	58	761	1,433	1,392	151
	1914	4,972	(2)	(2)	78	419	616	1,128	2,731	.....
Marble and stone work	1919	1,287	123	16	263	21	313	85	466	.....
	1914	1,390	(2)	(2)	307	324	599	93	64	3

[1] Includes 48 and under for 1914 and 1909.
[2] Corresponding figures not available.
[3] Not shown separately in 1914.
[4] Includes "iron and steel, tempering and welding" and "machine tools."

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.[1]	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Paper and wood pulp	1919	12,789	190	.....	7,546	.....	3,375	614	945	119
	1914	8,968	(2)	(2)	378	.....	.....	485	4,473	3,632
Paper goods, not elsewhere specified	1919	1,106	15	.....	132	610	147	.....	202	.....
	1914	188	(2)	(2)	7	.....	.....	109	24	48
Printing and publishing, book and job	1919	2,125	57	35	1,733	205	59	16	20	.....
	1914	1,765	(2)	(2)	1,352	153	162	89	9	.....
Printing and publishing, newspapers and periodicals	1919	2,680	189	51	1,784	161	374	68	49	4
	1914	2,848	(2)	(2)	1,490	246	747	227	119	19
Rubber tires, tubes, and rubber goods, not elsewhere specified	1919	4,557	153	.....	.....	.....	.....	4,390	14	.....
	1914	1,637	.....	.....	.....	17	.....	1,245	375	.....
Shipbuilding, steel	1919	6,658	.....	.....	6,656	.....	.....	2	.....	.....
	1914	504	.....	.....	.....	.....	504	.....	.....	.....
Shipbuilding, wooden, including boat building	1919	1,197	210	.....	898	.....	18	23	48	.....
	1914	191	(2)	(2)	45	7	50	15	73	1
Slaughtering and meat packing	1919	3,218	9	74	2,561	.....	69	449	56	.....
	1914	2,011	(2)	(2)	5	.....	866	102	1,038	.....
Stamped and enameled ware, not elsewhere specified	1919	3,512	.....	.....	.....	856	594	2,062	.....	.....
	1914	2,598	(2)	(2)	586	.....	.....	1,328	684	.....
Structural ironwork, not made in steel works or rolling mills	1919	1,308	.....	.....	.....	94	3	1,158	53	.....
	1914	1,400	(2)	(2)	2	28	8	1,259	103	.....
Tobacco, cigars and cigarettes	1919	1,696	272	222	985	79	98	26	14	.....
	1914	2,289	(2)	(2)	1,757	130	135	201	58	8
Woolen and worsted goods	1919	1,070	.....	.....	5	343	48	616	58	.....
	1914	795	(2)	(2)	6	.....	122	533	134	.....
All other industries	1919	41,342	2,260	1,047	8,194	7,096	5,374	9,476	6,364	1,531
	1914	33,111	(2)	(2)	5,116	3,020	3,436	10,117	9,793	1,629
Total for cities	1919	181,711	7,857	14,237	46,977	32,539	13,970	48,204	15,568	2,359
	1914	121,095	(2)	(2)	23,221	7,243	11,467	45,814	29,850	3,509
APPLETON	1919	2,691	14	.....	1,286	160	434	352	444	1
	1914	2,144	(2)	(2)	61	122	163	106	1,173	519
ASHLAND	1919	1,080	2	24	210	52	41	13	632	106
	1914	797	(2)	(2)	134	6	33	39	362	223
BELOIT	1919	4,623	4	.....	41	3,097	105	1,122	197	57
	1914	3,527	(2)	(2)	7	2	203	3,065	169	81
EAU CLAIRE	1919	3,301	23	89	343	239	727	988	892	.....
	1914	2,315	(2)	(2)	66	10	118	553	1,483	85
FOND DU LAC	1919	3,239	28	10	232	20	178	2,186	574	11
	1914	1,925	(2)	(2)	62	163	91	270	1,328	11
GREEN BAY	1919	4,798	11	373	2,152	441	482	784	550	5
	1914	2,724	(2)	(2)	149	74	203	679	1,321	298
JANESVILLE	1919	2,803	3	250	485	439	1,126	243	150	107
	1914	1,495	(2)	(2)	52	114	246	861	208	14
KENOSHA	1919	13,045	44	5	673	5,006	184	6,548	583	2
	1914	7,155	(2)	(2)	440	14	158	6,203	334	6
LA CROSSE	1919	4,503	1,085	277	1,487	475	434	583	148	14
	1914	3,340	(2))	(2)	733	200	703	817	848	39
MADISON	1919	3,189	484	132	443	474	1,327	170	145	14
	1914	2,084	(2)	(2)	187	48	162	1,058	556	73
MANITOWOC	1919	4,078	246	.....	2,110	71	431	1,082	138	.....
	1914	2,012	(2)	(2)	56	105	773	313	761	4
MARINETTE	1919	2,648	4	.....	246	7	42	567	1,768	14
	1914	2,112	(2)	(2)	202	15	8	180	1,537	170
MILWAUKEE	1919	84,222	3,739	12,240	25,055	19,296	4,611	15,013	2,978	1,290
	1914	61,839	(2)	(2)	14,713	5,465	5,804	23,555	10,482	1,820
OSHKOSH	1919	6,190	262	3	397	776	498	2,026	2,080	148
	1914	5,782	(2)	(2)	2,743	79	606	869	1,480	5
RACINE	1919	15,812	1,754	449	864	751	539	11,405	49	1
	1914	10,079	(2)	(2)	1,045	530	571	5,141	2,792	.....
SHEBOYGAN	1919	6,467	42	8	150	865	1,243	1,586	2,070	503
	1914	7,152	(2)	(2)	1,479	199	1,118	1,946	2,321	89
STEVENS POINT	1919	1,231	.....	2	482	4	225	24	488	6
SUPERIOR	1919	6,162	60	63	5,106	52	265	57	530	29
	1914	2,121	(2)	(2)	896	36	411	15	710	53
WAUKESHA	1919	2,339	7	.....	180	145	99	1,804	104	.....
WAUSAU	1919	2,320	31	14	207	113	874	36	1,021	24
	1914	2,492	(2)	(2)	196	61	96	144	1,985	10
WEST ALLIS	1919	6,970	14	298	4,828	56	105	1,615	27	27

[1] Includes 48 and under for 1914 and 1909.

[2] Corresponding figures not available.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		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.	
			Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
All industries	10,393	263,949	1,635	5,854	9,720	1,377	14,869	652	20,935	355	24,973	306	48,211	120	41,301	67	45,213	27	53,727
Agricultural implements	34	5,237	6	12	28	3	31	5	170	2	143	3	481	1	307	1	892	1	3,185
Aluminum manufactures	13	2,147	1	3	8	1	10	2	83			2	357	2	586	2	1,103		
Automobile bodies and parts	80	4,678	7	29	59	19	220	12	342	6	473	4	689	1	358	1	766	1	1,771
Automobiles	15	8,907		2	6	1	15	2	76	3	199	2	336	1	269	2	1,438	2	6,568
Automobile repairing	673	1,738	122	473	938	73	638	4	110	1	52								
Boots and shoes, not including rubber boots and shoes	62	7,598	2	11	32	6	72	10	400	13	1,046	13	1,811	3	880	3	2,266	1	1,091
Boxes, paper and other, not elsewhere specified	24	1,636		2	2	6	88	11	338			3	452	2	756				
Boxes, wooden packing, except cigar boxes	66	2,605	3	18	35	19	258	11	349	7	598	7	1,030	1	335				
Brass and bronze products	36	2,778		12	29	13	155	6	182	3	222	1	145					1	2,045
Bread and other bakery products	742	2,546	174	490	914	70	699	3	79	1	63	3	435	1	356				
Butter	498	1,317	27	424	780	44	376	2	51			1	110						
Canning and preserving, fruits and vegetables	103	2,737		1	1	41	529	53	1,591	6	394	2	222						
Carriages and wagons, including repairs	118	1,454	36	62	106	10	89	4	120	3	186	1	213	2	740				
Cars and general shop construction and repairs by steam-railroad companies	58	12,491		8	18	15	139	7	241	7	459	12	1,944	5	1,590	3	2,070	1	6,030
Cheese	2,323	1,912	436	1,884	1,885	3	27												
Clothing, men's	59	3,386	2	6	23	17	226	15	454	11	685	5	706	2	643	1	649		
Condensed milk	51	2,744		2	8	8	85	13	515	24	1,579	4	557						
Confectionery and ice cream	150	4,123	14	76	138	31	335	13	423	8	553	5	935	2	802	1	937		
Copper, tin, and sheet-iron work	199	1,302	19	140	276	28	261	10	317			2	448						
Electrical machinery, apparatus, and supplies	43	5,875		11	28	7	75	5	138	5	358	9	1,365	3	1,244	2	1,340	1	1,327
Engines, steam, gas, and water	36	17,782		2	6	6	61	6	197	4	261	6	985	4	1,534	5	3,957	3	10,781
Flour-mill and gristmill products	221	1,348	38	149	269	23	230	6	152	2	187	3	510						
Foundry and machine-shop products	429	18,635	37	152	346	94	1,138	67	2,234	34	2,500	31	5,075	6	1,992	7	4,264	1	1,086
Furniture	107	10,463	6	20	46	15	153	24	848	20	1,442	13	1,912	5	1,511	3	1,694	1	2,857
Gas, illuminating and heating	34	1,294		12	36	12	145	8	299			1	204			1	610		
Gloves and mittens, leather	28	1,728	1	2	7	9	113	5	191	5	356	5	807	1	254				
Iron and steel, steel works and rolling mills	12	3,929						3	117	1	73	4	683	1	251	2	1,617	1	1,188
Knit goods	72	8,736	6	10	17	13	143	15	527	8	474	10	1,297	6	2,023	2	1,273	2	2,982
Leather, tanned, curried, and finished	25	6,825		2	2	2	28	3	91	7	496	4	541	3	1,241	3	2,087	1	2,339
Liquors, malt	77	2,815	1	21	53	37	372	9	263	3	204	3	407	1	372	2	1,144		
Lumber and timber products	372	21,795	13	157	256	76	822	37	1,113	30	2,114	28	4,549	27	9,280	3	2,383	1	1,278
Lumber, planing-mill products, not including planing mills connected with sawmills	167	4,422	13	74	159	43	524	16	535	6	383	12	1,891	3	930				
Machine tools	24	2,352	1	3	8	4	34	8	243	3	186	2	307	1	296	2	1,278		
Marble and stone work	131	1,287	18	83	161	16	152	6	173	5	359	3	442						
Paper and wood pulp	57	12,789		1	2	3	45	5	139	10	713	21	3,810	10	3,504	7	4,576		
Paper goods, not elsewhere specified	17	1,106	1			6	74	4	114	1	52	4	490	1	376				
Printing and publishing, book and job	261	2,125	62	131	293	48	529	12	423	7	515			1	365				
Printing and publishing, newspapers and periodicals	529	2,680	135	319	647	48	475	16	502	8	614	3	442						
Rubber tires, tubes, and rubber goods, not elsewhere specified	8	4,557				1	14	2	69			1	153			2	1,062	2	3,259
Shipbuilding, steel	7	6,658		1	2									2	720	1	521	3	5,415
Shipbuilding, wooden, including boat building	28	1,197	6	13	21	3	46	1	23	2	115	2	415			1	577		
Slaughtering and meat packing	21	3,218	2	6	14	5	42	2	61	3	212			1	434			2	2,455
Stamped and enameled ware, not elsewhere specified	8	3,512						1	22			2	269	2	704	2	1,462	1	1,055
Structural ironwork, not made in steel works or rolling mills	21	1,308		2	7	5	61	8	291	2	194	3	489	1	266				
Tobacco, cigars and cigarettes	541	1,696	205	264	546	61	565	7	212	3	190	1	183						
Woolen and worsted goods	24	1,070	3	7	16	2	31	4	156	4	250	4	617						
All other industries	1,789	41,411	238	757	1,492	430	4,744	189	5,961	87	6,073	61	9,497	18	6,382	8	5,247	1	2,015
Total for cities	4,150	181,711	548	1,801	4,085	838	9,648	400	13,142	223	16,002	205	32,299	67	23,431	45	30,361	23	52,743
APPLETON	96	2,691	15	39	94	17	202	10	312	5	365	8	1,129	2	589				
ASHLAND	44	1,080	5	22	56	7	67	5	187	2	112	2	239	1	419				
BELOIT	59	4,623	4	26	71	15	176	6	179	3	168	2	257	1	257	1	583	1	2,932
EAU CLAIRE	96	3,301	8	43	115	20	237	11	344	5	374	5	578	3	1,103	1	550		
FOND DU LAC	104	3,239	21	45	68	18	206	7	216	6	431	5	832			2	1,486		
GREEN BAY	145	4,798	13	70	168	27	349	18	582	5	354	7	1,210	4	1,558	1	577		
JANESVILLE	85	2,803	7	40	105	15	169	12	401	4	264	6	887			1	977		
KENOSHA	84	13,045	8	44	117	9	88	6	201	5	356	4	737	3	1,292	2	1,290	3	8,964
LA CROSSE	151	4,503	16	76	205	27	304	14	420	4	270	11	1,827	2	753	1	724		
MADISON	147	3,189	29	61	133	37	431	8	285	6	466	3	460	2	643	1	771		
MANITOWOC	101	4,078	17	46	112	16	182	14	488	1	69	5	794			1	590	1	1,843
MARINETTE	56	2,648	3	28	69	8	76	3	121	7	489	6	1,037			1	856		
MILWAUKEE	2,093	84,222	304	911	1,982	421	4,882	200	6,560	105	7,540	86	13,516	31	10,767	24	15,718	11	23,257
OSHKOSH	169	6,190	19	66	162	41	467	12	377	19	1,400	8	1,399	2	583	1	524	1	1,278
RACINE	230	15,812	32	81	181	55	640	22	759	15	1,146	16	2,627	3	1,177	3	2,170	3	7,112
SHEBOYGAN	160	6,467	11	67	151	34	385	22	802	8	542	11	1,627	5	1,830	2	1,130		
STEVENS POINT	47	1,231	3	24	52	9	96	4	118	3	259	3	435	1	271				
SUPERIOR	94	6,162	7	45	101	21	245	10	293	3	172	4	719	1	416	1	643	2	3,573
WAUKESHA	72	2,339	14	28	49	14	122	6	195	5	328	3	474	1	256	1	917		
WAUSAU	83	2,320	11	30	70	20	243	8	244	8	547	4	571	2	645				
WEST ALLIS	34	6,970	1	9	24	7	81	2	58	4	352	6	944	3	872	1	855	1	3,784

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	10,393	9,104	9,721	263,949	194,310	182,583	$1,846,984,307	$695,172,002	$590,305,538	$719,709,346	$277,756,928	$243,948,955
Less than $5,000	2,034	2,631	3,071	1,142	2,779	3,458	5,180,694	6,527,110	7,615,812	3,077,464	3,819,033	4,457,314
$5,000 to $20,000	2,719	3,213	3,707	6,092	9,109	11,417	30,217,974	35,232,417	39,712,619	13,895,439	11,825,632	13,837,468
$20,000 to $100,000	3,778	2,252	2,064	18,946	26,189	26,965	171,478,121	94,373,593	86,957,666	43,998,107	32,216,841	32,235,366
$100,000 to $500,000	1,274	766	793	49,743	90,601	88,003	270,722,672	162,846,110	227,934,734	111,670,026	107,330,339	102,700,393
$500,000 to $1,000,000	272	130		26,452			188,577,779	93,199,279		85,071,930		
$1,000,000 and over	316	112	86	151,574	65,632	52,740	1,180,807,067	302,993,493	228,084,707	461,996,380	122,565,083	90,718,414
	PER CENT DISTRIBUTION.											
All classes	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than $5,000	19.6	28.9	31.6	0.4	1.4	1.9	0.3	0.9	1.3	0.4	1.4	1.8
$5,000 to $20,000	26.2	35.3	38.1	2.3	4.7	6.3	1.6	5.1	6.7	1.9	4.3	5.7
$20,000 to $100,000	36.4	24.7	21.2	7.2	13.5	14.8	9.3	13.6	14.7	6.1	11.6	13.2
$100,000 to $500,000	12.3	8.4	8.2	18.8	46.6	48.2	14.7	23.4	38.6	15.5	38.6	42.1
$500,000 to $1,000,000	2.6	1.4		13.8			10.2	13.4		11.8		
$1,000,000 and over	3.0	1.2	0.9	57.4	33.8	28.9	63.9	43.6	38.6	64.2	44.1	37.2

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
AGRICULTURAL IMPLEMENTS	34	46	100.0	100.0	5,237	3,143	100.0	100.0	$43,623,368	$20,119,058	100.0	100.0	$25,137,777	$11,443,424	100.0	100.0
Less than $5,000	6	16	17.6	34.8	.....	16	.....	0.5	10,183	41,058	(1)	0.2	7,132	22,632	(1)	0.2
$5,000 to $20,000	11	11	32.4	23.9	25	51	0.5	1.6	96,039	140,183	0.2	0.7	56,992	68,723	0.2	0.6
$20,000 to $100,000	4	7	11.8	15.2	48	100	0.9	3.2	196,725	341,337	0.5	1.7	98,836	171,375	0.4	1.5
$100,000 to $500,000	8	7	23.5	15.2	405	[2] 2,976	7.7	94.7	1,842,395	1,042,648	4.2	5.2	944,166	[2] 11,180,694	3.8	97.7
$500,000 and over	5	5	14.7	10.9	4,759	.....	90.9	.....	41,478,026	18,553,832	95.1	92.2	24,030,651	.....	95.6	.....
AUTOMOBILE BODIES AND PARTS	80	31	100.0	100.0	4,678	1,722	100.0	100.0	24,350,512	4,325,764	100.0	100.0	10,932,604	2,594,912	100.0	100.0
Less than $5,000	17	8	21.2	25.8	7	16	0.1	0.9	46,042	19,753	0.2	0.5	31,193	8,502	0.3	0.3
$5,000 to $20,000	19	6	23.8	19.4	62	28	1.3	1.6	202,547	54,321	0.8	1.3	126,948	33,378	1.2	1.3
$20,000 to $100,000	23	11	28.8	35.5	317	250	6.8	14.5	1,198,075	528,337	4.9	12.2	695,375	277,508	6.4	10.7
$100,000 to $500,000	11	[2] 6	13.8	19.4	466	[2] 1,428	10.0	82.9	2,871,920	[2] 3,723,353	11.8	86.1	1,362,449	[2] 2,275,524	12.5	87.7
$500,000 to $1,000,000	5	.....	6.2	.....	631	.....	13.5	.....	3,495,327	.....	14.4	.....	1,427,416	.....	13.0	.....
$1,000,000 and over	5	.....	6.2	.....	3,195	.....	68.3	.....	16,536,601	.....	67.9	.....	7,289,223	.....	66.7	.....
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES	62	61	100.0	100.0	7,598	5,772	100.0	100.0	44,373,938	17,643,350	100.0	100.0	16,671,436	5,654,578	100.0	100.0
Less than $20,000	13	12	21.0	19.7	33	37	0.4	0.6	125,935	66,176	0.3	0.4	60,422	26,377	0.4	0.5
$20,000 to $100,000	6	16	9.7	26.2	71	316	0.9	5.5	307,466	839,044	0.7	4.8	123,046	302,353	0.7	5.3
$100,000 to $500,000	19	27	30.6	44.3	1,081	[2] 5,419	14.2	93.9	5,144,512	7,307,640	11.6	41.4	1,817,628	[2] 5,325,848	10.9	94.2
$500,000 to $1,000,000	15	.....	24.2	.....	1,827	.....	24.0	.....	10,524,964	.....	23.7	.....	3,797,347	.....	22.8	.....
$1,000,000 and over	9	[4] 6	14.5	9.8	4,586	.....	60.4	.....	28,271,061	[4] 9,430,490	63.7	53.5	10,872,993	.....	65.2	.....
BRASS AND BRONZE PRODUCTS	36	30	100.0	100.0	2,778	1,122	100.0	100.0	22,509,723	5,409,260	100.0	100.0	7,178,743	1,014,272	100.0	100.0
Less than $20,000	8	12	22.2	40.0	13	39	0.5	3.5	67,153	119,378	0.3	2.2	31,313	55,035	0.4	5.4
$20,000 to $100,000	16	12	44.4	40.0	160	162	5.8	14.4	951,699	489,393	4.2	9.0	376,980	253,785	5.3	25.0
$100,000 and over	12	6	33.3	20.0	2,605	921	93.8	82.1	21,490,871	4,800,489	95.5	88.7	6,770,450	705,452	94.3	69.6
BREAD AND OTHER BAKERY PRODUCTS	742	704	100.0	100.0	2,546	2,197	100.0	100.0	20,130,468	8,057,702	100.0	100.0	7,134,216	3,521,761	100.0	100.0
Less than $5,000	122	271	16.4	38.5	38	182	1.5	8.3	374,941	802,116	1.9	10.0	148,861	360,100	2.1	10.2
$5,000 to $20,000	413	368	55.7	52.3	494	837	19.4	38.1	4,725,704	3,214,417	23.5	39.9	1,612,813	1,396,320	22.6	39.6
$20,000 to $100,000	185	59	24.9	8.4	869	620	34.1	28.2	6,855,042	2,113,628	34.1	26.2	2,147,086	881,942	30.1	25.0
$100,000 to $500,000	17	[2] 6	2.3	0.9	290	[2] 558	11.4	25.4	2,463,441	[2] 1,927,541	12.2	23.9	813,512	[2] 883,399	11.4	25.1
$500,000 and over	5	.....	0.7	.....	855	.....	33.6	.....	5,711,340	.....	28.4	.....	2,411,944	.....	33.8	.....
BUTTER	498	675	100.0	100.0	1,317	1,606	100.0	100.0	56,642,327	34,075,821	100.0	100.0	4,295,698	3,162,358	100.0	100.0
Less than $5,000	7	15	1.4	2.2	1	6	0.1	0.4	19,075	42,061	(1)	0.1	4,115	6,088	0.1	0.2
$5,000 to $20,000	42	134	8.4	19.9	29	135	2.2	8.4	561,553	1,899,244	1.0	5.6	81,955	181,110	1.9	5.7
$20,000 to $100,000	250	454	50.2	67.3	360	933	27.3	58.1	14,404,507	20,027,087	25.4	58.8	1,119,071	1,808,761	26.0	57.2
$100,000 to $500,000	192	[2] 72	38.6	10.7	749	[2] 532	56.9	33.1	36,086,480	[2] 12,107,489	63.7	35.5	2,485,345	[2] 1,166,399	57.9	36.9
$500,000 and over	7	.....	1.4	.....	178	.....	13.5	.....	5,570,712	.....	9.8	.....	605,212	.....	14.1	.....
CANNING AND PRESERVING, FRUITS AND VEGETABLES	103	81	100.0	100.0	2,737	2,521	100.0	100.0	17,036,038	6,898,667	100.0	100.0	6,919,866	2,568,529	100.0	100.0
Less than $20,000	3	3	2.9	3.7	27	15	1.0	0.6	39,888	33,870	0.2	0.5	21,454	20,140	0.3	0.8
$20,000 to $100,000	25	57	24.3	70.4	435	1,277	15.9	50.7	1,791,040	3,372,130	10.5	48.9	739,956	1,288,143	10.7	50.2
$100,000 and over	75	21	72.8	25.9	2,275	1,229	83.1	48.7	15,205,110	3,492,667	89.3	50.6	6,158,456	1,260,246	89.0	49.1

[1] Less than one-tenth of 1 per cent.
[2] Includes the group "$500,000 and over."
[3] Includes the groups "$500,000 to $1,000,000" and "$1,000,000 and over."
[4] Includes the group "$500,000 to $1,000,000."

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Continued.

Industry and value of product.	Number of establishments.				Average number of wage earners.				Value of products.				Value added by manufacture.			
	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES	58	35	100.0	100.0	12,491	9,011	100.0	100.0	$36,790,522	$10,920,886	100.0	100.0	$17,833,339	$6,380,445	100.0	100.0
Less than $5,000	3	3	5.2	8.6	2	5	(1)	0.1	5,895	7,635	(1)	0.1	4,464	4,753	(1)	0.1
$5,000 to $20,000	13	5	22.4	14.3	68	42	0.6	0.5	172,406	59,498	0.5	0.5	126,077	42,182	0.7	0.7
$20,000 to $100,000	11	8	19.0	22.9	203	399	1.6	4.4	562,463	422,912	1.5	3.9	379,470	275,167	2.1	4.3
$100,000 to $500,000	19	15	32.8	42.9	1,902	[2] 8,565	15.2	95.1	4,817,149	3,198,614	13.1	29.3	3,208,594	[2] 6,058,343	18.0	95.0
$500,000 to $1,000,000	8	.....	13.8	.....	2,216	.....	17.7	.....	5,606,682	.....	15.2	.....	3,366,802	.....	18.9	.....
$1,000,000 and over	4	[3] 4	6.9	11.4	8,100	.....	64.8	.....	25,625,927	[3] 7,232,227	69.7	66.2	10,747,932	.....	60.3	.....
CHEESE	2,323	1,739	100.0	100.0	1,912	1,330	100.0	100.0	91,462,678	28,075,795	100.0	100.0	7,112,880	2,426,712	100.0	100.0
Less than $5,000	35	98	1.5	5.6	5	39	0.3	2.9	96,782	344,368	0.1	1.2	11,342	29,503	0.2	1.2
$5,000 to $20,000	364	1,171	15.7	67.3	195	769	10.2	57.8	5,043,824	14,299,271	5.5	50.9	490,685	1,294,777	6.9	53.4
$20,000 to $100,000	1,886	[4] 470	81.2	27.0	1,605	[4] 522	83.9	39.2	81,525,148	[4] 13,432,156	89.1	47.8	6,307,500	[4] 1,102,432	88.7	45.4
$100,000 to $500,000	38	.....	1.6	.....	107	.....	5.6	.....	4,796,924	.....	5.2	.....	303,293	.....	4.3	.....
CLOTHING, MEN'S	59	55	100.0	100.0	3,386	3,204	100.0	100.0	17,050,701	7,985,697	100.0	100.0	6,722,888	3,360,987	100.0	100.0
Less than $20,000	13	19	22.0	34.5	138	256	4.1	8.0	158,836	176,526	0.9	2.2	146,361	122,103	2.2	3.6
$20,000 to $100,000	16	18	27.1	32.7	240	416	7.1	13.0	700,580	723,788	4.1	9.1	378,426	270,030	5.6	8.0
$100,000 to $500,000	23	14	39.0	25.5	1,157	[2] 2,532	34.2	79.0	5,406,860	3,374,061	31.7	42.3	1,665,833	[2] 2,968,854	24.8	88.3
$500,000 to $1,000,000	3	[5] 4	5.1	7.3	364	.....	10.8	.....	2,043,222	[5] 3,711,322	12.0	46.5	884,360	.....	13.2	.....
$1,000,000 and over	4	.....	6.8	.....	1,487	.....	43.9	.....	8,741,203	.....	51.3	.....	3,647,908	.....	54.3	.....
CONDENSED MILK	51	17	100.0	100.0	2,744	781	100.0	100.0	73,342,268	10,706,976	100.0	100.0	12,054,373	1,943,984	100.0	100.0
Less than $500,000	9	8	17.6	47.1	73	[2] 781	2.7	100.0	2,456,748	2,283,382	3.3	21.3	377,118	[2] 1,943,984	3.1	100.0
$500,000 to $1,000,000	10	[5] 9	19.6	52.9	358	.....	13.0	.....	6,859,255	[5] 8,423,594	9.4	78.7	888,720	.....	7.4	.....
$1,000,000 and over	32	.....	62.7	.....	2,313	.....	84.3	.....	64,026,265	.....	87.3	.....	10,788,535	.....	89.5	.....
CONFECTIONERY AND ICE CREAM	150	100	100.0	100.0	4,123	2,429	100.0	100.0	24,388,617	7,243,167	100.0	100.0	9,969,059	2,742,178	100.0	100.0
Less than $5,000	27	32	18.0	32.0	14	25	0.3	1.0	81,588	89,529	0.3	1.2	29,751	46,700	0.3	1.7
$5,000 to $20,000	45	34	30.0	34.0	74	97	1.8	4.0	434,577	365,505	1.8	5.0	167,598	172,802	1.7	6.3
$20,000 to $100,000	41	21	27.3	21.0	304	390	7.4	16.1	1,774,472	1,072,084	7.3	14.8	689,167	424,372	6.9	15.5
$100,000 to $500,000	27	10	18.0	10.0	964	[2] 1,917	23.4	78.9	5,611,232	2,040,795	23.0	28.2	2,167,169	[2] 2,098,304	21.7	76.5
$500,000 to $1,000,000	4	.....	2.7	.....	483	.....	11.7	.....	2,940,693	.....	12.1	.....	1,155,418	.....	11.6	.....
$1,000,000 and over	6	[3] 3	4.0	3.0	2,284	.....	55.4	.....	13,546,055	[3] 3,675,254	55.5	50.7	5,759,956	.....	57.8	.....
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES	43	29	100.0	100.0	5,875	2,115	100.0	100.0	23,636,473	5,396,802	100.0	100.0	14,268,411	3,333,082	100.0	100.0
Less than $20,000	12	9	27.9	31.0	61	68	1.0	3.2	156,375	71,174	0.7	1.3	90,485	44,191	0.6	1.3
$20,000 to $100,000	6	8	14.0	27.6	52	150	0.9	7.1	253,096	306,343	1.1	5.7	154,529	141,892	1.1	4.3
$100,000 to $500,000	12	[5] 12	27.9	41.4	799	[5] 1,897	13.6	89.7	2,651,148	[5] 5,019,285	11.2	93.0	1,629,862	[5] 3,146,999	11.4	94.4
$500,000 to $1,000,000	6	.....	14.0	.....	857	.....	14.6	.....	4,161,836	.....	17.6	.....	2,161,494	.....	15.1	.....
$1,000,000 and over	7	.....	16.3	.....	4,106	.....	69.9	.....	16,414,018	.....	69.4	.....	10,232,041	.....	71.7	.....
ENGINES, STEAM, GAS, AND WATER	36	40	100.0	100.0	17,782	6,010	100.0	100.0	90,953,496	13,063,336	100.0	100.0	45,886,312	7,188,456	100.0	100.0
Less than $20,000	5	13	13.9	32.5	27	44	0.2	0.7	61,359	88,747	0.1	0.6	41,398	53,734	0.1	0.7
$20,000 to $100,000	5	12	13.9	30.0	105	330	0.6	5.5	306,132	708,106	0.3	5.4	72,387	418,455	0.2	5.8
$100,000 to $500,000	9	10	25.0	25.0	520	[2] 5,636	2.9	93.8	2,172,034	2,246,825	2.4	17.2	943,495	[2] 6,716,267	2.1	93.4
$500,000 to $1,000,000	4	.....	11.1	.....	630	.....	3.5	.....	2,862,417	.....	3.1	.....	1,170,415	.....	2.6	.....
$1,000,000 and over	13	[3] 5	36.1	12.5	16,500	.....	92.8	.....	85,551,554	[3] 10,019,658	94.1	76.7	43,658,617	.....	95.1	.....
FLOUR-MILL AND GRISTMILL PRODUCTS	221	252	100.0	100.0	1,348	1,116	100.0	100.0	58,304,432	28,697,413	100.0	100.0	6,567,548	3,717,512	100.0	100.0
Less than $5,000	9	22	4.1	8.7	.....	15	.....	1.3	22,530	66,650	(1)	0.2	4,937	10,782	0.1	0.3
$5,000 to $20,000	39	84	17.6	33.3	23	92	1.7	8.2	511,005	996,683	0.9	3.5	88,160	162,138	1.3	4.4
$20,000 to $100,000	103	115	46.6	45.6	152	273	11.3	24.5	5,456,917	4,689,023	9.4	16.3	811,862	564,332	12.4	15.2
$100,000 to $500,000	52	22	23.5	8.7	227	[3] 237	16.8	21.2	9,223,785	4,157,172	15.8	14.5	1,239,845	[3] 784,924	18.9	21.1
$500,000 to $1,000,000	9	3	4.1	1.2	144	.....	10.7	.....	5,912,713	1,738,365	10.1	6.1	813,950	.....	12.4	.....
$1,000,000 and over	9	6	4.1	2.4	802	499	59.5	44.7	37,177,482	17,049,520	63.8	59.4	3,608,794	2,195,336	54.9	59.1
FOUNDRY AND MACHINE-SHOP PRODUCTS [6]	476	364	100.0	100.0	21,056	16,842	100.0	100.0	96,411,712	37,199,865	100.0	100.0	57,637,324	20,156,215	100.0	100.0
Less than $5,000	86	92	18.1	25.3	45	114	0.2	0.7	229,580	214,688	0.3	0.6	158,625	146,182	0.3	0.7
$5,000 to $20,000	106	85	22.3	23.4	308	420	1.5	2.5	1,245,426	884,641	1.3	2.4	760,515	532,861	1.3	2.6
$20,000 to $100,000	124	121	26.1	33.2	1,502	2,519	7.1	15.0	6,068,763	5,795,378	6.3	15.6	3,464,297	3,175,972	6.0	15.8
$100,000 to $500,000	113	50	23.7	13.7	5,463	[3] 8,497	25.9	50.5	24,680,840	9,756,186	25.6	26.2	14,462,385	[3] 9,812,087	25.1	48.7
$500,000 to $1,000,000	25	11	5.2	3.0	3,976	.....	18.9	.....	16,825,606	7,342,837	17.5	19.7	10,487,784	.....	18.2	.....
$1,000,000 and over	22	5	4.6	1.4	9,762	5,292	46.4	31.4	47,361,497	13,206,135	49.1	35.5	28,303,718	6,489,113	49.1	32.2
FURNITURE	107	107	100.0	100.0	10,463	11,015	100.0	100.0	41,500,756	20,773,768	100.0	100.0	23,290,313	11,024,790	100.0	100.0
Less than $5,000	13	12	12.1	11.2	10	18	0.1	0.2	32,943	25,854	0.1	0.1	18,889	15,072	0.1	0.1
$5,000 to $20,000	10	15	9.3	14.0	24	89	0.2	0.8	85,562	163,950	0.2	0.8	49,863	97,593	0.2	0.9
$20,000 to $100,000	25	41	23.4	38.3	427	1,158	4.1	10.5	1,256,492	2,117,817	3.0	10.2	646,399	1,115,414	2.8	10.1
$100,000 to $500,000	42	33	39.3	30.8	2,838	[3] 6,376	27.1	57.9	9,292,349	7,352,954	22.4	37.8	5,188,805	[3] 5,821,671	22.3	52.8
$500,000 to $1,000,000	10	3	9.3	2.8	1,831	.....	17.5	.....	6,932,739	2,586,868	16.7	12.5	3,827,708	.....	16.4	.....
$1,000,000 and over	7	3	6.5	2.8	5,333	3,374	51.0	30.6	23,900,671	8,026,325	57.6	38.6	13,558,649	3,975,040	58.2	36.1
KNIT GOODS	72	68	100.0	100.0	8,736	6,244	100.0	100.0	40,777,704	13,292,395	100.0	100.0	16,560,836	6,267,073	100.0	100.0
Less than $5,000	7	20	9.7	29.4	3	31	.....	0.5	21,469	37,546	0.1	0.3	8,591	19,574	0.1	0.3
$5,000 to $20,000	11	9	15.3	13.2	28	84	0.3	1.3	98,486	119,485	0.2	0.9	48,899	58,662	0.3	0.9
$20,000 to $100,000	16	20	22.2	29.4	335	732	3.8	11.7	770,847	1,120,643	1.9	8.4	364,416	529,323	2.2	8.4
$100,000 to $500,000	22	12	30.6	17.7	1,217	[3] 2,068	13.9	33.1	4,781,699	2,342,352	11.7	17.6	2,087,491	[3] 1,758,732	12.6	28.5
$500,000 to $1,000,000	6	3	8.3	4.4	875	.....	10.0	.....	3,659,629	2,037,513	9.0	15.3	1,644,706	.....	9.9	.....
$1,000,000 and over	10	4	13.9	5.9	6,278	3,329	71.9	53.3	31,445,574	7,634,766	77.1	57.4	12,406,733	3,870,782	74.9	61.8

[1] Less than one-tenth of 1 per cent.
[2] Includes the groups "$500,000 to $1,000,000" and "$1,000,000 and over."
[3] Includes the group "$500,000 to $1,000,000."
[4] Includes the group "$100,000 to $500,000."
[5] Includes the group "$1,000,000 and over."
[6] Includes "iron and steel, tempering and welding" and "machine tools."

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Continued.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914	1919	1914	Per cent distribution. 1919	Per cent distribution. 1914
LEATHER, TANNED, CURRIED, AND FINISHED	25	27	100.0	100.0	6,825	5,869	100.0	100.0	$94,762,230	$42,204,202	100.0	100.0	$25,256,202	$9,151,016	100.0	100.0
Less than $100,000	4	6	16.0	22.2	38	75	0.6	1.3	187,747	177,664	0.2	0.4	109,338	55,934	0.4	0.6
$100,000 to $500,000	4	7	16.0	25.9	211	[1]853	3.1	14.6	962,595	1,895,438	1.0	4.5	484,324	[1]1,789,554	1.9	19.6
$500,000 to $1,000,000	4	7	16.0	25.9	211	.....	3.1	.....	2,877,055	5,918,937	3.0	14.0	427,482	.....	1.7	.....
$1,000,000 and over	13	7	52.0	25.9	6,365	4,936	93.3	84.1	90,734,833	34,212,163	95.7	81.1	24,235,058	7,305,528	96.0	79.8
LIQUORS, MALT	77	132	100.0	100.0	2,815	5,414	100.0	100.0	35,829,684	40,884,284	100.0	100.0	24,346,878	27,181,523	100.0	100.0
Less than $20,000	9	32	11.7	24.2	12	92	0.4	1.7	97,805	365,030	0.3	0.9	63,081	236,717	0.3	0.9
$20,000 to $100,000	32	60	41.6	45.5	199	585	7.1	10.8	1,872,876	2,999,804	5.2	7.3	1,235,623	1,923,891	5.1	7.1
$100,000 to $500,000	25	[1]33	32.5	25.0	413	[1]1,053	14.7	19.4	4,870,576	[1]7,794,636	13.6	19.1	2,939,522	[1]5,246,476	12.1	19.3
$500,000 to $1,000,000	5	.....	6.5	.....	314	.....	11.2	.....	3,196,645	.....	8.9	.....	2,522,830	.....	10.4	.....
$1,000,000 and over	6	7	7.8	5.3	1,877	3,684	66.7	68.0	25,791,782	29,724,814	72.0	72.7	17,585,222	19,774,439	72.2	72.7
LUMBER AND TIMBER PRODUCTS	372	433	100.0	100.0	21,795	24,941	100.0	100.0	57,221,434	37,494,041	100.0	100.0	35,829,538	22,431,036	100.0	100.0
Less than $5,000	113	160	30.4	37.0	110	290	0.5	1.2	256,933	354,361	0.4	1.0	186,235	249,362	0.5	1.1
$5,000 to $20,000	85	106	22.8	24.5	394	775	1.8	3.1	904,052	1,084,671	1.6	2.9	650,512	658,410	1.8	2.9
$20 000 to $100,000	70	80	18.8	18.5	1,217	2,710	5.6	10.9	3,092,300	3,653,727	5.4	9.7	1,825,819	2,226,056	5.1	9.9
$100,000 to $500,000	71	73	19.1	16.9	7,674	[1]17,079	35.2	68.5	18,693,374	18,460,710	32.7	49.2	11,433,667	[1]14,869,736	31.9	66.3
$500,000 to $1,000,000	22	10	5.9	2.3	5,941	.....	27.3	.....	14,834,379	6,726,000	25.9	17.9	10,689,961	.....	29.8	.....
$1,000,000 and over	11	4	3.0	0.9	6,459	4,087	29.6	16.4	19,440,396	7,214,572	34.0	19.2	11,043,344	4,427,472	30.8	19.7
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS	167	146	100.0	100.0	4,422	4,972	100.0	100.0	20,546,990	12,921,004	100.0	100.0	9,232,469	5,335,653	100.0	100.0
Less than $5,000	33	36	19.8	24.7	16	45	0.4	0.9	75,992	84,923	0.4	0.7	43,572	47,359	0.5	0.9
$5,000 to $20,000	47	31	28.1	21.2	134	144	3.0	2.9	533,174	330,342	2.6	2.6	256,935	168,205	2.8	3.2
$20,000 to $100,000	42	52	25.1	35.6	471	947	10.7	19.0	2,193,368	2,565,773	10.7	19.9	1,061,075	1,110,730	11.5	20.8
$100,000 to $500,000	32	20	19.2	13.7	1,212	[2]3,836	27.4	77.2	6,455,237	4,708,281	31.4	36.4	2,870,296	[2]4,009,359	31.1	75.1
$500,000 and over	13	7	7.8	4.8	2,589	.....	58.5	.....	11,289,219	5,231,685	54.9	40.5	5,000,591	.....	54.2	.....
PAPER AND WOOD PULP	57	58	100.0	100.0	12,789	8,968	100.0	100.0	80,328,483	31,205,395	100.0	100.0	35,127,538	10,637,307	100.0	100.0
Less than $100,000	4	8	7.0	13.8	57	171	0.4	1.9	212,694	541,936	0.3	1.7	99,384	158,863	0.3	1.5
$100,000 to $500,000	11	25	19.3	43.1	538	[1]5,597	4.6	62.4	3,347,360	7,779,882	4.2	24.9	1,305,018	[1]6,535,536	3.7	61.4
$500,000 to $1,000,000	11	18	19.3	31.0	1,287	.....	10.1	.....	8,627,063	12,428,373	10.7	39.8	3,074,405	.....	8.8	.....
$1,000,000 and over	31	7	54.4	12.1	10,857	3,200	84.9	35.7	68,141,366	10,455,204	84.8	33.5	30,648,731	3,942,908	87.2	37.1
PRINTING AND PUBLISHING, BOOK AND JOB	261	217	100.0	100.0	2,125	1,765	100.0	100.0	7,970,336	4,239,861	100.0	100.0	4,834,545	2,586,575	100.0	100.0
Less than $5,000	89	99	34.1	45.6	38	93	1.8	5.3	202,662	242,634	2.5	5.7	129,036	175,760	2.7	6.8
$5,000 to $20,000	94	71	36.0	32.7	234	385	11.0	21.8	994,754	767,247	12.5	18.1	626,167	503,798	13.0	19.5
$20,000 to $100,000	60	37	23.0	17.1	608	688	28.6	39.0	2,480,048	1,566,496	31.1	36.9	1,583,522	990,355	32.8	38.3
$100,000 and over	18	10	6.9	4.6	1,245	599	58.6	33.9	4,292,872	1,663,484	53.9	39.2	2,495,820	916,662	51.6	35.4
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS	529	572	100.0	100.0	2,680	2,848	100.0	100.0	14,639,902	8,098,914	100.0	100.0	10,272,223	5,723,445	100.0	100.0
Less than $5,000	258	365	48.8	63.8	215	529	8.0	18.6	721,476	941,347	4.9	11.6	528,317	728,214	5.1	12.7
$5,000 to $20,000	197	149	37.2	26.0	538	680	20.1	23.9	1,787,269	1,281,515	12.2	15.8	1,308,738	973,507	12.7	17.0
$20,000 to $100,000	41	41	7.8	7.2	415	636	15.5	22.3	1,617,983	1,808,658	11.1	22.3	1,130,360	1,296,841	11.0	22.7
$100,000 and over	33	17	6.2	3.0	1,512	1,003	56.4	35.2	10,513,174	4,067,394	71.8	50.2	7,304,808	2,724,883	71.1	47.6
SLAUGHTERING AND MEAT PACKING	21	22	100.0	100.0	3,218	2,011	100.0	100.0	102,182,171	32,180,684	100.0	100.0	12,278,232	3,643,117	100.0	100.0
Less than $100,000	6	11	28.6	50.0	8	39	0.2	1.9	278,161	615,693	0.3	1.9	36,381	87,362	0.3	2.4
$100,000 to $500,000	8	6	38.1	27.3	79	[2]1,972	2.5	98.1	1,844,818	1,211,029	1.8	3.8	266,423	[2]3,555,755	2.2	97.6
$500,000 and over	7	5	33.3	22.7	3,131	.....	97.3	.....	100,059,192	30,353,962	97.9	94.3	11,975,428	.....	97.5	.....

[1] Includes the group "$500,000 to $1,000,000."

[2] Includes the group "$500,000 and over."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
APPLETON	96	2,691	100.0	$17,166,932	100.0	$7,943,400	100.0
Less than $5,000	23	10	0.4	60,815	0.4	40,350	0.5
$5,000 to $20,000	23	59	2.2	244,134	1.4	139,103	1.8
$20,000 to $100,000	26	333	12.4	1,164,020	6.8	622,671	7.8
$100,000 to $500,000	12	578	21.5	2,682,217	15.6	1,406,430	17.7
$500,000 and over	12	1,711	63.6	13,015,746	75.8	5,734,846	72.2
ASHLAND	44	1,080	100.0	5,004,270	100.0	2,269,289	100.0
Less than $5,000	8	4	0.4	20,190	0.4	10,180	0.4
$5,000 to $20,000	15	40	3.7	133,765	2.7	76,754	3.4
$20,000 to $100,000	10	92	8.5	408,050	8.2	192,957	8.5
$100,000 to $500,000	7	414	38.3	1,472,368	29.4	706,921	31.2
$500,000 and over	4	530	49.1	2,969,897	59.3	1,282,477	56.5
BELOIT	59	4,623	100.0	21,105,232	100.0	11,650,582	100.0
Less than $5,000	6	4	0.1	15,608	0.1	6,402	0.1
$5,000 to $20,000	20	54	1.2	214,807	1.0	125,989	1.1
$20,000 to $100,000	17	194	4.2	774,891	3.7	404,392	3.5
$100,000 to $500,000	11	427	9.2	2,576,160	12.2	1,324,609	11.4
$500,000 and over	5	3,944	85.3	17,523,766	83.0	9,789,190	84.0
EAU CLAIRE	96	3,301	100.0	15,791,554	100.0	7,230,842	100.0
Less than $5,000	16	12	0.4	37,439	0.2	1,670	(1)
$5,000 to $20,000	24	76	2.3	241,657	1.5	136,342	1.9
$20,000 to $100,000	28	320	9.7	1,237,296	7.8	617,447	8.5
$100,000 to $500,000	20	859	26.0	4,544,757	28.8	2,002,723	27.7
$500,000 and over	8	2,034	61.6	9,730,405	61.6	4,472,660	61.9
FOND DU LAC	104	3,239	100.0	22,337,653	100.0	8,606,462	100.0
Less than $5,000	36	11	0.3	103,566	0.5	63,319	0.7
$5,000 to $20,000	28	60	1.9	299,128	1.3	159,929	1.9
$20,000 to $100,000	20	290	9.0	1,199,913	5.4	502,772	5.8
$100,000 to $500,000	13	560	17.3	2,235,094	10.0	1,052,176	12.2
$500,000 and over	7	2,318	71.6	18,499,952	82.8	6,828,266	79.3
GREEN BAY	145	4,798	100.0	28,188,292	100.0	14,374,965	100.0
Less than $5,000	37	25	0.5	82,509	0.3	52,396	0.4
$5,000 to $20,000	36	111	2.3	388,182	1.4	221,213	1.5
$20,000 to $100,000	31	347	7.2	1,536,921	5.5	682,241	4.7
$100,000 to $500,000	29	1,098	22.9	6,623,184	23.5	2,907,901	20.2
$500,000 to $1,000,000	7	1,305	27.2	5,338,780	18.9	2,207,186	15.4
$1,000,000 and over	5	1,912	39.8	14,218,716	50.4	8,304,028	57.8
JANESVILLE	85	2,803	100.0	16,023,213	100.0	5,459,252	100.0
Less than $5,000	15	10	0.4	38,916	0.2	25,243	0.5
$5,000 to $20,000	25	81	2.9	296,530	1.9	180,678	3.3
$20,000 to $100,000	17	200	7.1	781,875	4.9	348,085	6.4
$100,000 to $500,000	19	633	22.6	3,428,333	21.4	1,506,497	27.6
$500,000 and over	9	1,879	67.0	11,477,559	71.6	3,398,749	62.3
KENOSHA	84	13,045	100.0	103,725,717	100.0	42,327,072	100.0
Less than $5,000	14	7	0.1	39,242	(1)	25,353	0.1
$5,000 to $20,000	27	76	0.6	330,814	0.3	170,352	0.4
$20,000 to $100,000	20	140	1.1	828,735	0.8	397,948	0.9
$100,000 to $500,000	10	471	3.6	2,348,752	2.3	1,325,273	3.1
$500,000 and over	13	12,351	94.7	100,178,174	96.6	40,408,146	95.5
LA CROSSE	151	4,503	100.0	24,935,983	100.0	10,697,212	100.0
Less than $5,000	26	13	0.3	64,768	0.3	38,373	0.4
$5,000 to $20,000	51	160	3.6	529,890	2.1	297,556	2.8
$20,000 to $100,000	41	474	10.5	2,096,206	8.4	1,066,283	10.0
$100,000 to $500,000	21	1,068	23.7	4,665,455	18.7	2,121,566	19.8
$500,000 to $1,000,000	7	1,109	24.6	5,347,363	21.4	2,776,899	26.0
$1,000,000 and over	5	1,679	37.3	12,232,301	49.1	4,396,535	41.1
MADISON	147	3,189	100.0	16,823,242	100.0	9,161,018	100.0
Less than $5,000	33	11	0.3	77,076	0.5	55,383	0.6
$5,000 to $20,000	45	105	3.3	475,276	2.8	269,082	2.9
$20,000 to $100,000	36	310	9.7	1,810,076	10.8	892,092	9.7
$100,000 to $500,000	27	936	29.4	5,921,635	35.2	3,163,671	34.5
$500,000 and over	6	1,827	57.3	8,539,179	50.8	4,780,790	52.2
MANITOWOC	101	4,078	100.0	27,761,586	100.0	12,658,266	100.0
Less than $5,000	29	18	0.4	95,229	0.3	55,200	0.4
$5,000 to $20,000	30	98	2.4	364,969	1.3	200,752	1.6
$20,000 to $100,000	18	171	4.2	729,263	2.6	427,172	3.4
MANITOWOC—Con							
$100,000 to $500,000	17	736	18.0	$3,357,337	12.1	$1,430,509	11.3
$500,000 and over	7	3,055	74.9	23,214,788	83.6	10,544,633	83.3
MARINETTE	56	2,648	100.0	11,027,838	100.0	4,353,432	100.0
Less than $5,000	11	11	0.4	31,447	0.3	19,968	0.5
$5,000 to $20,000	15	43	1.6	166,861	1.5	81,461	1.9
$20,000 to $100,000	11	65	2.5	338,976	3.1	108,767	2.5
$100,000 to $500,000	13	782	29.5	2,757,002	25.0	1,351,968	31.1
$500,000 and over	6	1,747	66.0	7,733,552	70.1	2,791,268	64.1
MILWAUKEE	2,093	84,222	100.0	576,161,312	100.0	234,393,099	100.0
Less than $5,000	385	170	0.2	980,169	0.2	577,341	0.2
$5,000 to $20,000	680	1,607	1.9	7,621,524	1.3	3,950,151	1.7
$20,000 to $100,000	529	5,337	6.3	23,841,886	4.1	12,662,297	5.4
$100,000 to $500,000	326	14,458	17.2	74,431,218	12.9	34,772,852	14.8
$500,000 to $1,000,000	77	9,440	11.2	54,660,149	9.5	24,832,494	10.6
$1,000,000 and over	96	53,210	63.2	414,626,366	72.0	157,597,964	67.2
OSHKOSH	169	6,190	100.0	27,571,897	100.0	13,885,354	100.0
Less than $5,000	30	14	0.2	65,526	0.2	39,616	0.3
$5,000 to $20,000	43	131	2.1	497,115	1.8	274,858	2.0
$20,000 to $100,000	49	493	8.0	2,132,913	7.7	1,079,150	7.8
$100,000 to $500,000	31	1,501	24.2	7,050,990	25.6	3,505,031	25.2
$500,000 to $1,000,000	10	1,279	20.7	7,028,906	25.5	3,143,633	22.6
$1,000,000 and over	6	2,772	44.8	10,796,447	39.2	5,843,066	42.1
RACINE	230	15,812	100.0	120,027,399	100.0	61,425,675	100.0
Less than $5,000	38	13	0.1	95,619	0.1	52,503	0.1
$5,000 to $20,000	52	127	0.8	590,698	0.5	311,053	0.5
$20,000 to $100,000	71	681	4.3	3,150,425	2.6	1,538,229	2.5
$100,000 to $500,000	40	1,625	10.3	8,531,688	7.1	4,740,125	7.7
$500,000 to $1,000,000	9	1,065	6.7	6,170,471	5.1	2,754,031	4.5
$1,000,000 and over	20	12,301	77.8	101,488,498	84.6	52,029,734	84.7
SHEBOYGAN	160	6,467	100.0	31,497,124	100.0	14,783,734	100.0
Less than $5,000	25	15	0.2	69,968	0.2	34,643	0.2
$5,000 to $20,000	47	136	2.1	546,450	1.7	293,032	2.0
$20,000 to $100,000	40	506	7.8	2,003,363	6.4	970,567	6.6
$100,000 to $500,000	31	1,512	23.4	7,071,412	22.5	3,420,044	23.1
$500,000 to $1,000,000	8	1,507	23.3	5,523,933	17.5	2,661,089	18.0
$1,000,000 and over	9	2,791	43.2	16,281,998	51.7	7,404,359	50.1
STEVENS POINT	47	1,231	100.0	4,233,674	100.0	2,049,158	100.0
Less than $5,000	13	14	1.1	35,818	0.8	22,136	1.1
$5,000 to $20,000	11	38	3.1	112,833	2.7	61,471	3.0
$20,000 to $100,000	9	66	5.4	401,932	9.5	170,338	8.3
$100,000 and over	14	1,113	90.4	3,683,091	87.0	1,795,213	87.6
SUPERIOR	94	6,162	100.0	44,043,214	100.0	16,729,268	100.0
Less than $5,000	11	5	0.1	28,146	0.1	18,228	0.1
$5,000 to $20,000	26	62	1.0	299,120	0.7	141,046	0.8
$20,000 to $100,000	35	298	4.8	1,466,785	3.3	726,451	4.3
$100,000 to $500,000	12	460	7.5	2,705,651	6.1	1,337,889	8.0
$500,000 to $1,000,000	4	417	6.8	2,405,055	5.5	1,099,017	6.6
$1,000,000 and over	6	4,920	79.8	37,138,457	84.3	13,406,637	80.1
WAUKESHA	72	2,339	100.0	17,029,441	100.0	7,208,764	100.0
Less than $5,000	15	3	0.1	33,345	0.2	20,197	0.3
$5,000 to $20,000	24	55	2.4	237,442	1.4	151,735	2.1
$20,000 to $100,000	16	114	4.9	685,043	4.0	359,001	5.0
$100,000 to $500,000	9	380	16.2	1,753,853	10.3	890,776	12.4
$500,000 and over	8	1,787	76.4	14,319,758	84.1	5,787,055	80.3
WAUSAU	83	2,320	100.0	13,395,166	100.0	4,475,200	100.0
Less than $5,000	16	10	0.4	36,871	0.3	22,070	0.5
$5,000 to $20,000	24	70	3.0	239,550	1.8	136,612	3.1
$20,000 to $100,000	18	230	9.9	987,935	7.4	493,525	11.0
$100,000 to $500,000	17	949	40.9	4,212,727	31.4	1,693,708	37.8
$500,000 and over	8	1,061	45.7	7,918,083	59.1	2,129,285	47.6
WEST ALLIS	34	6,970	100.0	36,477,071	100.0	20,172,977	100.0
Less than $20,000	9	20	0.3	99,545	0.3	53,701	0.3
$20,000 to $100,000	7	82	1.2	307,859	0.8	162,797	0.8
$100,000 to $500,000	7	346	5.0	1,375,700	3.8	791,800	3.9
$500,000 to $1,000,000	6	1,071	15.4	4,495,414	12.3	2,761,445	13.7
$1,000,000 and over	5	5,451	78.2	30,198,553	82.8	16,403,234	81.3

[1] Less than one-tenth of 1 per cent.

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.							VALUE OF PRODUCTS.						
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.		
		Individuals.	Corporations.	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations.	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations.	All others.
All industries	1919	4,889	3,047	2,457	263,949	10,883	244,454	8,612	4.1	92.6	3.3	$1,846,984,307	$115,699,851	$1,614,831,541	$116,452,915	6.3	87.4	6.3
	1914	4,446	2,523	2,135	194,310	11,462	172,909	9,939	5.9	89.0	5.1	695,172,002	54,000,553	582,284,229	58,887,220	7.8	83.8	8.5
	1909	4,975	2,422	2,324	182,583	14,256	156,027	12,300	7.8	85.5	6.7	590,305,538	53,714,983	471,360,437	65,230,118	9.1	79.8	11.1
Agricultural implements	1919	9	19	6	5,237	33	5,196	8	0.6	99.2	0.2	43,623,368	128,566	43,450,563	44,239	0.3	99.6	0.1
	1914	13	24	9	3,143	21	3,100	22	0.7	98.6	0.7	20,119,058	112,234	19,928,945	77,879	0.6	99.1	0.4
Automobile bodies and parts.	1919	22	46	12	4,678	95	4,564	19	2.0	97.6	0.4	24,350,512	391,923	23,858,501	100,088	1.6	98.0	0.4
	1914	8	21	2	1,722	[1] 34	1,688	.....	2.0	98.0	.....	4,325,764	[1] 96,415	4,229,349	.....	2.2	97.8	.....
Boots and shoes, not including rubber boots and shoes.	1919	10	49	3	7,598	114	7,381	103	1.5	97.1	1.4	44,373,938	478,195	43,337,892	557,851	1.1	97.7	1.3
	1914	11	45	5	5,772	117	5,535	120	2.0	95.9	2.1	17,643,350	277,103	16,952,052	414,195	1.6	96.1	2.3
Brass and bronze products.	1919	12	22	2	2,778	[1] 75	2,703	.....	2.7	97.3	.....	22,509,723	[1] 534,551	21,975,172	.....	2.4	97.6	.....
	1914	9	17	4	1,122	18	1,080	24	1.6	96.3	2.1	5,409,260	94,261	5,186,590	128,409	1.7	95.9	2.4
Bread and other bakery products.	1919	634	32	76	2,546	1,175	1,118	253	46.2	43.9	9.9	20,130,468	10,000,184	7,976,939	2,153,345	49.7	39.6	10.7
	1914	607	27	70	2,197	1,215	788	194	55.3	35.9	8.8	8,057,702	4,642,482	2,704,156	711,064	57.6	33.6	8.8
Butter	1919	105	89	304	1,317	162	386	769	12.3	29.3	58.4	56,642,327	6,795,045	12,411,628	37,435,654	12.0	21.9	66.1
	1914	165	99	411	1,606	238	416	952	14.8	25.9	59.3	34,075,821	5,574,362	6,916,428	21,585,031	16.4	20.3	63.3
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	58	.....	12,491	.....	12,491	.....	.....	100.0	.....	36,790,522	.....	36,790,522	.....	.....	100.0	.....
	1914	.....	35	.....	9,011	.....	9,011	.....	.....	100.0	.....	10,920,886	.....	10,920,886	.....	.....	100.0	.....
Cheese	1919	1,229	135	959	1,912	773	175	964	40.4	9.2	50.4	91,462,678	50,644,350	5,888,968	34,929,360	55.4	6.4	38.2
	1914	964	137	638	1,330	636	158	536	47.8	11.9	40.3	28,075,795	17,275,097	2,444,695	8,356,003	61.5	8.7	29.8
Clothing, men's	1919	17	32	10	3,386	260	2,818	308	7.7	83.2	9.1	17,050,701	595,143	15,248,545	1,207,013	3.5	89.4	7.1
	1914	15	28	12	3,204	181	2,562	461	5.6	80.0	14.4	7,985,697	138,213	6,754,188	1,093,296	1.7	84.6	13.7
Confectionery and ice cream.	1919	66	59	25	4,123	149	3,893	81	3.6	94.4	2.0	24,388,617	1,158,992	22,558,176	671,449	4.8	92.5	2.8
	1914	51	34	15	2,429	138	2,253	38	5.7	92.8	1.6	7,243,167	430,302	6,655,145	157,720	5.9	91.9	2.2
Flour-mill and gristmill products.	1919	99	62	60	1,348	119	1,131	98	8.8	83.9	7.3	58,304,432	5,476,691	48,397,150	4,430,591	9.4	83.0	7.6
	1914	122	60	70	1,116	170	709	237	15.2	63.5	21.2	28,697,413	2,981,868	21,417,656	4,297,889	10.4	74.6	15.0
Foundry and machine-shop products.[2]	1919	143	275	58	21,056	720	19,937	399	3.4	94.7	1.9	96,411,712	3,291,248	90,318,485	2,801,979	3.4	93.7	2.9
	1914	94	216	54	16,842	441	16,045	356	2.6	95.3	2.1	37,199,865	1,096,900	35,127,191	975,774	2.9	94.4	2.6
Furniture	1919	28	74	5	10,463	216	10,128	119	2.1	96.8	1.1	41,500,756	1,071,762	39,816,774	612,220	2.6	95.9	1.5
	1914	25	75	7	11,015	277	10,631	107	2.5	96.5	1.0	20,773,768	478,302	20,051,517	243,949	2.3	96.5	1.2
Iron and steel, steel works and rolling mills.	1919	.....	12	.....	3,929	.....	3,929	.....	.....	100.0	.....	28,393,331	.....	28,393,331	.....	.....	100.0	.....
	1914	.....	12	.....	2,029	.....	2,029	.....	.....	100.0	.....	6,008,549	.....	6,008,549	.....	.....	100.0	.....
Knit goods	1919	18	51	3	8,736	49	8,585	102	0.6	98.3	1.2	40,777,704	219,474	39,913,053	645,177	0.5	97.9	1.6
	1914	21	41	6	6,244	55	6,070	119	0.9	97.2	1.9	13,292,305	101,369	12,962,360	228,576	0.8	97.5	1.7
Liquors, malt	1919	9	57	11	2,815	28	2,719	68	1.0	96.6	2.4	35,829,684	345,402	34,633,630	850,652	1.0	96.7	2.4
	1914	27	88	17	5,414	156	5,160	98	2.9	95.3	1.8	40,884,284	940,266	39,323,705	620,313	2.3	96.2	1.5
Lumber and timber products.	1919	166	141	65	21,795	1,019	20,152	624	4.7	92.5	2.9	57,221,434	2,544,411	53,037,389	1,639,634	4.4	92.7	2.9
	1914	187	147	99	24,941	1,147	22,261	1,533	4.6	89.3	6.1	37,494,041	1,633,648	33,730,539	2,129,854	4.4	90.0	5.7
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	60	81	26	4,422	192	4,102	128	4.3	92.8	2.9	20,546,990	864,183	19,089,740	593,067	4.2	92.9	2.9
	1914	41	74	31	4,972	287	4,301	384	5.8	86.5	7.7	12,921,004	792,670	11,163,900	964,434	6.1	86.4	7.5
Slaughtering and meat packing.	1919	6	8	7	3,218	11	3,101	106	0.3	96.4	3.3	102,182,171	458,297	99,199,208	2,524,666	0.4	97.1	2.5
	1914	6	8	8	2,011	22	1,934	55	1.1	96.2	2.7	32,180,684	329,586	31,125,222	725,876	1.0	96.7	2.3
Stamped and enameled ware, not elsewhere specified.	1919	.....	8	.....	3,512	.....	3,512	.....	.....	100.0	.....	19,599,822	.....	19,599,822	.....	.....	100.0	.....
	1914	.....	5	.....	2,598	.....	2,598	.....	.....	100.0	.....	6,352,879	.....	6,352,879	.....	.....	100.0	.....
Total for cities	1919	1,803	1,798	549	181,711	6,236	171,210	4,265	3.4	94.2	2.3	1,180,327,810	34,447,591	1,118,349,157	27,531,062	2.9	94.7	2.3
	1914	1,627	1,356	474	121,095	6,139	110,479	4,477	5.1	91.2	3.7	422,301,023	18,375,692	385,009,681	18,915,650	4.4	91.2	4.5
APPLETON	1919	39	43	14	2,691	113	2,541	37	4.2	94.4	1.4	17,166,932	655,035	16,260,311	251,586	3.8	94.7	1.5
	1914	49	44	14	2,144	127	1,939	78	5.9	90.4	3.6	7,557,673	340,782	7,035,648	181,243	4.5	93.1	2.4
ASHLAND	1919	19	20	5	1,080	52	1,015	13	4.8	94.0	1.2	5,004,270	394,524	4,579,597	30,149	7.9	91.5	0.6
	1914	15	16	6	797	32	742	23	4.0	93.1	2.9	1,827,032	71,841	1,679,527	75,664	3.9	91.9	4.1
BELOIT	1919	22	25	12	4,623	97	4,415	111	2.1	95.5	2.4	21,105,232	594,592	19,046,054	1,464,586	2.8	90.2	6.9
	1914	17	21	12	3,527	45	3,347	135	1.3	94.9	3.8	6,927,601	116,534	6,375,662	435,405	1.7	92.0	6.3
EAU CLAIRE	1919	29	56	11	3,301	60	3,105	136	1.8	94.1	4.1	15,791,554	340,454	14,779,090	672,010	2.2	93.6	4.3
	1914	39	43	12	2,315	114	2,174	27	4.9	93.9	1.2	6,773,829	446,253	6,216,047	111,529	6.6	91.8	1.6
FOND DU LAC	1919	46	38	20	3,239	75	3,052	112	2.3	94.2	3.5	22,337,653	420,860	21,267,551	649,242	1.9	95.2	2.9
	1914	49	33	18	1,925	126	1,730	69	6.5	89.9	3.6	6,760,850	334,600	6,215,596	210,654	4.9	91.9	3.1
GREEN BAY	1919	61	71	13	4,798	297	4,452	49	6.2	92.8	1.0	28,188,292	1,316,602	26,613,302	258,388	4.7	94.4	0.9
	1914	44	47	13	2,724	253	2,371	100	9.3	87.0	3.7	6,797,505	764,625	5,773,758	259,122	11.2	84.9	3.8
JANESVILLE	1919	36	36	13	2,803	102	2,635	66	3.6	94.0	2.4	16,023,213	589,313	15,070,721	363,179	3.7	94.1	2.3
	1914	24	35	12	1,495	59	1,378	58	3.9	92.2	3.9	5,659,226	194,504	5,273,028	191,694	3.4	93.2	3.4
KENOSHA	1919	38	30	16	13,045	186	12,779	80	1.4	98.0	0.6	103,725,717	959,024	102,250,154	516,539	0.9	98.6	0.5
	1914	38	23	14	7,155	124	6,981	50	1.7	97.6	0.7	28,341,156	346,186	27,826,606	168,364	1.2	98.2	0.6
LA CROSSE	1919	67	60	24	4,503	257	3,955	291	5.7	87.8	6.5	24,935,983	1,305,146	22,562,554	1,068,283	5.2	90.5	4.3
	1914	74	65	28	3,340	255	2,944	141	7.6	88.1	4.2	14,739,232	751,751	13,449,687	537,794	5.1	91.3	3.6
MADISON	1919	48	68	31	3,189	172	2,908	109	5.4	91.2	3.4	16,823,242	1,460,901	14,410,255	952,086	8.7	85.7	5.7
	1914	35	57	30	2,084	172	1,782	130	8.3	85.5	6.2	6,206,970	650,593	4,958,527	597,850	10.5	79.9	9.6

[1] Includes the group "All others."

[2] Includes "iron and steel, tempering and welding" and "machine tools."

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.						
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.		
		Individuals.	Corporations.	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations.	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations.	All others.
MANITOWOC	1919	50	37	14	4,078	142	3,891	45	3.5	95.4	1.1	$27,761,586	$666,710	$26,525,044	$569,832	2.4	95.5	2.1
	1914	37	28	12	2,012	193	1,759	60	9.6	87.4	3.0	8,460,694	398,484	7,794,614	267,596	4.7	92.1	3.2
MARINETTE	1919	26	26	4	2,648	77	2,558	13	2.9	96.6	0.5	11,027,838	334,000	10,620,306	73,532	3.0	96.3	0.7
	1914	26	20	5	2,112	67	2,007	38	3.2	95.0	1.8	4,674,473	185,365	4,391,438	97,670	4.0	93.9	2.1
MILWAUKEE	1919	991	849	253	84,222	3,291	78,423	2,508	3.9	93.1	3.0	576,161,312	19,305,623	541,873,567	14,982,122	3.4	94.0	2.6
	1914	901	619	208	61,839	3,430	55,628	2,781	5.5	90.0	4.5	223,555,142	10,715,786	200,989,978	11,849,378	4.8	89.9	5.3
OSHKOSH	1919	72	76	21	6,190	331	5,770	89	5.3	93.2	1.4	27,571,897	1,304,527	25,648,484	618,886	4.7	93.0	2.2
	1914	70	64	23	5,782	270	5,254	258	4.7	90.9	4.5	13,889,936	638,894	12,420,043	830,999	4.6	89.4	6.0
RACINE	1919	90	110	30	15,812	296	15,345	171	1.9	97.0	1.1	120,027,399	1,872,041	115,702,782	2,452,576	1.6	96.4	2.0
	1914	65	95	29	10,079	304	9,533	242	3.0	94.6	2.4	43,632,384	1,174,533	41,368,152	1,089,699	2.7	94.8	2.5
SHEBOYGAN	1919	43	94	23	6,467	236	6,106	125	3.6	94.4	1.9	31,497,124	1,178,419	29,657,396	661,309	3.7	94.2	2.1
	1914	49	70	13	7,152	283	6,779	90	4.0	94.8	1.3	17,509,450	576,760	16,745,267	187,423	3.3	95.6	1.1
STEVENS POINT	1919	24	16	7	1,231	188	975	68	15.3	79.2	5.5	4,233,674	389,696	3,527,194	316,784	9.2	83.3	7.5
SUPERIOR	1919	36	39	19	6,162	136	5,927	99	2.2	96.2	1.6	44,043,214	751,989	42,407,403	883,822	1.7	96.3	2.0
	1914	54	39	18	2,121	159	1,870	92	7.5	88.2	4.3	11,662,566	422,138	9,629,840	1,610,588	3.6	82.6	13.8
WAUKESHA	1919	25	37	10	2,339	23	2,282	34	1.0	97.6	1.5	17,029,441	163,078	16,704,094	162,269	1.0	98.1	1.0
WAUSAU	1919	34	40	9	2,320	86	2,125	109	3.7	91.6	4.7	13,395,166	323,875	12,487,409	583,882	2.4	93.2	4.4
	1914	41	37	7	2,492	126	2,261	105	5.1	90.7	4.2	7,325,304	246,063	6,866,263	212,978	3.4	93.7	2.9
WEST ALLIS	1919	7	27	.....	6,970	19	6,951	.....	0.3	99.7	.....	36,477,071	121,182	36,355,889	.....	0.3	99.7	.....

TABLE 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

	Census year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.
Number of places	1919	.....	21	.....	12	.....	8	.....	1	.....	.....	.....
	1914	.....	18	.....	9	.....	8	.....	1	.....	.....	.....
	1909	.....	18	.....	10	.....	7	.....	1	.....	.....	.....
Population[1]	1920	2,632,067	962,129	36.6	202,313	7.7	302,669	11.5	457,147	17.4	1,669,938	63.4
	1915	2,446,716	835,277	34.1	145,932	6.0	269,756	11.0	419,589	17.1	1,611,439	65.9
	1910	2,333,860	752,948	32.3	160,061	6.9	219,030	9.4	373,857	16.0	1,580,912	67.7
Number of establishments	1919	10,393	4,150	39.9	877	8.4	1,180	11.4	2,093	20.1	6,243	60.1
	1914	9,104	3,457	38.0	672	7.4	1,057	11.6	1,728	19.0	5,647	62.0
	1909	9,721	3,330	34.2	688	7.1	878	9.0	1,764	18.1	6,391	65.7
Average number of wage earners	1919	263,949	181,711	68.8	37,323	14.1	60,166	22.8	84,222	31.9	82,238	31.2
	1914	194,310	121,095	62.3	18,819	9.7	40,437	20.8	61,839	31.8	73,215	37.7
	1909	182,583	113,662	62.3	24,466	13.4	29,694	16.3	59,502	32.6	68,921	37.7
Value of products	1919	$1,846,984,307	$1,180,327,810	63.9	$207,353,630	11.2	$396,812,868	21.5	$576,161,312	31.2	$666,656,497	36.1
	1914	695,172,002	422,301,023	60.7	55,966,682	8.0	142,779,199	20.5	223,555,142	32.2	272,870,979	39.3
	1909	590,305,538	364,736,784	61.8	73,322,285	12.4	83,090,869	14.1	208,323,630	35.3	225,568,754	38.2
Value added by manufacture	1919	719,709,346	511,855,021	71.1	94,077,624	13.1	183,384,298	25.5	234,393,099	32.6	207,854,325	28.9
	1914	277,756,928	185,835,975	66.9	22,990,386	8.3	64,166,382	23.1	98,679,207	35.5	91,920,953	33.1
	1909	243,948,955	158,263,857	64.9	30,451,355	12.5	40,110,295	16.4	87,702,207	36.0	85,685,098	35.1

[1] Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

TABLE 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919.

CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase[1] over 1914.	
			Amount.	Per cent.
MILWAUKEE.				
Leather, tanned, curried, and finished	$54,007,415	57.0	$31,114,109	135.9
Slaughtering and meat packing	44,949,676	44.0	29,403,469	189.1
Foundry and machine-shop products[2]	36,345,673	37.7	26,443,571	267.1
Engines, steam, gas, and water	31,867,356	35.0	25,669,543	414.2
Boots and shoes	30,007,285	67.6	18,341,461	157.2
Knit goods	24,015,467	58.9	16,830,712	234.3
Liquors, malt	22,509,127	62.8	−5,172,683	−18.7
Confectionery and ice cream	16,816,309	69.0	11,872,850	240.2
Electrical machinery, apparatus, and supplies	16,577,685	70.1	12,583,039	315.0
Iron and steel, steel works and rolling mills	13,841,234	48.7	8,195,926	145.2
Clothing, men's	12,027,246	70.5	6,797,786	130.0
Bread and other bakery products	11,308,930	56.2	6,737,873	147.4
Flour-mill and gristmill products	9,257,389	15.9	(3)	.....
Malt	7,639,938	42.3	2,885,993	60.7
Printing and publishing, newspapers and periodicals	7,070,478	48.3	3,685,966	108.9
Automobile bodies and parts	6,942,121	28.5	5,747,213	481.0
Food preparations, not elsewhere specified	5,700,141	43.4	4,856,815	575.9
Printing and publishing, book and job	5,551,573	69.7	2,656,597	91.8
Lumber, planing-mill products, not including planing mills connected with sawmills	5,142,779	25.0	2,294,153	80.5
Structural ironwork, not made in steel works or rolling mills	4,551,572	53.3	1,920,020	73.0
Furniture	4,313,164	10.4	1,916,663	80.0
Boxes, wooden packing, except cigar boxes	4,299,378	38.7	2,214,957	106.3
Paints	4,262,913	63.6	2,731,367	178.3
Gloves and mittens, leather	4,192,835	61.9	2,853,543	213.1
Boxes, paper and other, not elsewhere specified	4,026,562	79.0	2,067,363	105.5
Saddlery and harness	3,694,921	71.8	1,474,833	66.4
Millinery and lace goods, not elsewhere specified	3,352,886	100.0	1,198,228	55.6
Sausage, not made in slaughtering and meat-packing establishments	3,337,034	82.9	952,617	40.0
Brass and bronze products	2,952,372	13.1	1,777,265	151.2
Tobacco, cigars	2,931,358	49.8	1,027,323	54.0
Paper goods, not elsewhere specified	2,207,502	26.8	(3)	.....
Lithographing	2,079,440	100.0	977,169	88.7
Automobiles				
Bags, other than paper, not including bags made in textile mills	(3)	(3)	(3)	(3)
MILWAUKEE—Continued.				
Cars and general shop construction and repairs by electric-railroad companies				
Cars and general shop construction and repairs by steam-railroad companies				
Coffee, roasting and grinding				
Coke, not including gas-house coke				
Gas, illuminating and heating				
Motorcycles, bicycles, and parts	(3)	(3)	(3)	(3)
Paper and wood pulp				
Shipbuilding, steel				
Soap				
Stamped and enameled ware, not elsewhere specified				
Steam packing				
Stoves, gas and oil				
Tobacco, smoking, and snuff				
RACINE.				
Agricultural implements	$38,904,257	89.2	$22,620,247	138.9
Foundry and machine-shop products[4]	6,256,624	6.5	3,923,065	168.1
Automobile bodies and parts	5,146,786	21.1	3,891,919	310.1
Electrical machinery, apparatus, and supplies	4,012,066	17.0	3,500,897	684.9
Boots and shoes	2,918,681	6.6	1,404,528	92.8
Trunks and valises	2,004,329	42.4	1,207,664	151.6
Bread and other bakery products	779,702	3.9	524,627	205.7
Hardware	734,363	80.0	(3)	.....
Printing and publishing, book and job	703,966	8.8	481,100	215.9
Automobiles				
Cleansing and polishing preparations				
Food preparations, not elsewhere specified				
Furniture				
Gas, illuminating and heating				
Printing and publishing, newspapers and periodicals	(3)	(3)	(3)	(3)
Rubber tires, tubes, and rubber goods, not elsewhere specified				
Shirts				
Springs, steel, automobile, not made in steel works or rolling mills				

[1] A minus sign (—) denotes decrease.
[2] Includes "iron and steel, tempering and welding" and "machine tools."
[3] Figures can not be shown without disclosing individual operations.
[4] Includes "iron and steel, welding" and "machine tools."

TABLE 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
				Amount.			Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	34,164	18,588	11,561	878,682	682,339	554,179	100.0	100.0	100.0
Owned	6,950	7,609	7,660	664,850	596,864	527,431	75.7	87.5	95.2
Steam[1]	4,441	5,052	4,974	467,524	420,065	378,169	53.2	61.6	68.2
Engines	4,111	(2)	(2)	394,710	(2)	(2)	44.9	.....	.....
Turbines	330	(2)	(2)	72,814	(2)	(2)	8.3	.....	.....
Internal-combustion engines	1,612	1,564	1,578	16,706	28,004	19,531	1.9	4.1	3.5
Water	897	993	1,108	180,620	148,795	129,731	20.6	21.8	23.4
Water wheels and turbines	884	966	1,073	180,515	148,099	129,550	20.5	21.7	23.4
Water motors	13	27	35	105	696	181	(3)	0.1	(3)
Rented	27,214	10,979	3,901	213,832	85,475	26,748	24.3	12.5	4.8
Electric	27,214	10,979	3,901	209,470	79,984	25,459	23.8	11.7	4.6
Other	.....	.....	.....	4,362	5,491	1,289	0.5	0.8	0.2
Electric	48,804	23,920	11,402	473,184	255,668	114,725	100.0	100.0	100.0
Rented	27,214	10,979	3,901	209,470	79,984	25,459	44.3	31.3	22.2
Generated by establishments reporting	21,590	12,941	7,501	263,714	175,684	89,266	55.7	68.7	77.8

[1] Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.
[2] Not reported separately.
[3] Less than one-tenth of 1 per cent.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries 1919	103,525	5,271,886	542,938	616,799	214,487	1,270,809
1914	98,331	3,537,183	340,460	236,055	(1)	383,916
Per cent of increase	5.3	48.4	59.5	252.2	(1)	231.0
Agricultural implements	29	44,338	11,064	34,454	6,118	11,171
Aluminum manufactures		12,156	518	14,699	571	250
Automobile bodies and parts	185	47,913	366	20,963	207	25,092
Automobiles	321	62,695	5,514	82,411	19,642	43,498
Boots and shoes, not including rubber boots and shoes	314	17,484	81	1	41	2,060
Brass and bronze products	13,727	59,380	3,633	2,066	156	22,536
Bread and other bakery products	4,265	6,995	9,760	592	3,934	67,964
Brick and tile, terra-cotta, and fire-clay products	1,050	25,768	2,181	8,800	105	
Butter	1,670	26,355	48	320	935	
Canning and preserving, fruits and vegetables	213	22,629	28	50	1,194	
Cars and general shop construction and repairs by steam-railroad companies		241,672	2,334	4,949	192	1,461
Cheese	1,975	66,713	708	1,544	3,330	
Coal-tar products		35,267	10,409	743		2,000
Coke, not including gas-house coke		1,237,859	5,794		89,337	6,175
Condensed milk	1,842	195,564		47	2,571	94
Electrical machinery, apparatus, and supplies	476	19,929	1,314	21,611	513	42,784
Engines, steam, gas, and water	98	183,169	38,215	86,791	19,131	83,861
Flour-mill and gristmill products	4,796	34,225	40	1,486	922	
Food preparations, not elsewhere specified	261	33,256	150	2	220	33,186
Foundry and machine-shop products	4,133	225,055	56,495	48,500	2,656	36,155
Furniture	1,513	102,557	1,750	5,447	773	1,843
Gas, illuminating and heating		343,322	17,920	96,397	92	
Glue, other than fish		65,784	265			
Iron and steel, blast furnaces		7,836	289,980	396		617,736
Iron and steel, steel works and rolling mills	144	170,410	6,513	72,585	290	17,923
Iron and steel forgings, not made in steel works or rolling mills	7,361	7,013	26	18,356		
Knit goods	208	35,441	8	1		2,282
Leather, tanned, curried, and finished	113	164,233	47			958
Liquors, malt	2,550	107,910	1,643	15	366	
Lumber and timber products	1,558	60,346		93	685	
Lumber, planing-mill products, not including planing mills connected with saw-mills	71	24,483	55	110	276	1,770
Machine tools	329	16,697	2,181	276	98	2,668
Malt	18,181	60,922	2,098		44	107
Paints	15,330	13,785				75
Paper and wood pulp		800,733	37,757		25	
Roofing materials		33,992	1,767	1,898	4,015	30,801
Rubber tires, tubes, and rubber goods, not elsewhere specified	6,387	69,613				
Shipbuilding, steel	361	24,684	1,308	23,106	227	664
Slaughtering and meat packing	162	88,605			250	11,766
Stamped and enameled ware, not elsewhere specified	189	56,013	8,586	23,527	1,333	14,710
Sugar, beet		26,834	300			
All other industries	13,713	392,251	22,082	44,563	54,318	189,219
Total for cities	70,065	3,159,866	228,269	489,053	176,951	569,964
APPLETON	1,223	79,600	1,487	2	129	96
ASHLAND	69	21,942	20	1,851	85	67
BELOIT	283	64,850	17,489	11,792	7,191	7,798
EAU CLAIRE	6,807	31,271	780	22	299	1,908
FOND DU LAC	67	41,745	1,137	630	268	3,004
GREEN BAY	164	100,841	1,211	3,811	222	6,674
JANESVILLE	75	27,727	2,475	8,191	37	2,797
KENOSHA	14,326	189,902	12,069	80,612	14,606	16,532
LA CROSSE	322	47,283	2,030	2,197	3,623	16,277
MADISON	855	36,648	9,147	22,515	654	11,054
MANITOWOC	6,433	38,578	3,401	15,785	207	2,072
MARINETTE	323	19,450	456		1	44
MILWAUKEE	23,276	1,935,673	128,007	178,388	140,083	403,509
OSHKOSH	359	43,953	7,258	1,929	293	3,020
RACINE	418	223,135	17,578	62,596	5,921	64,629
SHEBOYGAN	1,771	68,376	2,298	420	512	2,113
STEVENS POINT	76	10,634	505	64	224	349
SUPERIOR	5,558	41,649	1,825	6,241	228	16,565
WAUKESHA	125	30,157	2,714	13,446	508	2,340
WAUSAU	26	14,197	231		13	883
WEST ALLIS	7,509	92,255	16,151	78,511	1,847	8,233

1 Included in figures for fuel oils.

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for 11 of these industries in Wisconsin are here presented.

Butter, cheese, and condensed milk (Table 19).—This table presents the quantities and values of the principal classes of products of the combined industry for 1919, 1914, and 1909.

The total value of all products from 1914 to 1919 increased 203.9 per cent. As indicative of the high prices prevailing in 1919, as compared with 1914, the quantity of butter shows a decrease of 19.9 per cent, while the total value increased 64.4 per cent.

In 1919 Wisconsin was the leading state in the combined value of the butter, cheese, and condensed-milk industries. The state led in the value of cheese manufactured in that year, and was second in the value of butter.

TABLE 19.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value	[1] $221,447,273	$72,858,592	$53,843,249
Butter:			
Pounds	93,081,754	116,149,284	103,884,684
Value	$53,380,697	$32,475,633	$29,547,135
Packed solid—			
Pounds	72,673,292	89,745,906	77,137,253
Value	$42,540,113	$24,981,447	$21,833,972
Prints or rolls—			
Pounds	20,408,462	26,403,378	26,747,431
Value	$10,840,584	$7,494,186	$7,713,163
Cream sold:			
Pounds	30,892,435	7,449,330	4,490,568
Value	$3,129,281	$800,226	$545,723
Cheese:			
Pounds	298,705,911	205,920,915	148,065,648
Value	$88,084,130	$28,124,073	$21,141,640
Full cream—			
Pounds	293,508,902	195,520,031	147,071,501
Value	$87,234,046	$27,333,907	$21,070,010
Part cream—			
Pounds	1,472,400	3,547,700	229,892
Value	$397,673	$471,804	$19,405
Other kinds—			
Pounds	3,724,609	6,853,184	764,255
Value	$452,411	$318,362	$52,225
Condensed and evaporated milk:			
Pounds	513,226,536	149,682,530	30,573,886
Value	$68,509,973	$9,850,522	$2,218,239
Condensed milk—			
Pounds	114,395,209	87,611,403	.....
Value	$16,910,313	$5,926,284	.....
Sweetened—			
Pounds	99,555,049	62,798,619	16,661,772
Value	$15,086,176	$4,446,798	$1,240,398
Unsweetened—			
Pounds	14,840,160	24,812,784	13,912,114
Value	$1,824,137	$1,479,486	$977,841
Evaporated milk—			
Pounds	398,831,327	62,071,127	
Value	$51,599,660	$3,924,238	
Powdered milk:			
Pounds	3,728,516	3,596,145	(2)
Value	$756,810	$159,416	(2)
All other butter, cheese, and condensed-milk factory products, value	$6,638,944	$1,196,705	$287,514
All other products, value	$947,438	$252,017	$102,998

[1] In addition, in 1919, butter valued at $406,961, cheese valued at $19,770, and casein valued at $1,050 were manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.
[2] Not reported separately.

Slaughtering and meat-packing industry (Table 20).—This table presents for 1919, 1914, and 1909 the kind, number, and cost of animals slaughtered, the cost of "All other materials," which includes that for poultry, dressed meat purchased for curing, cottonseed oil for making lard compounds and substitutes, seasoning, containers, materials for making ice, refrigeration, fuel, rent of power, mill supplies, and freight, and the principal products that can be shown without disclosing individual operations. The value of minor and auxiliary products is grouped under "All other products," which includes canned meat, canned sausage, canned goods, meat puddings, headcheese, scrapple, etc., lard compounds and substitutes, oleo oil, oleo stearin, casings, hoofs, horns, horntips, strips and waste, glue, skins other than cattle, calf, and sheep, stock feed, and ice.

TABLE 20.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	$89,903,939	$28,537,567	$22,248,506
Animals slaughtered, cost	$74,063,892	$26,117,099	$20,099,059
Beeves—			
Number	123,316	70,900	73,049
Cost	$10,601,787	$4,488,399	$3,112,547
Calves—			
Number	293,248	101,936	129,207
Cost	$4,994,617	$1,123,516	$1,048,962
Sheep and lambs—			
Number	60,414	60,124	48,518
Cost	$625,408	$320,043	$232,845
Hogs—			
Number	1,444,115	1,110,449	1,078,361
Cost	$57,842,080	$20,185,141	$15,704,705
All other materials, cost	$15,840,047	$2,420,468	$2,149,447
PRODUCTS.			
Total value	$102,182,171	$32,180,684	$25,702,123
Fresh meat, value	$28,370,710	$10,518,899	$8,817,193
Beef—			
Pounds	52,035,952	32,955,273	35,859,863
Value	$8,859,176	$3,765,939	$2,605,870
Veal—			
Pounds	21,101,904	8,010,982	9,615,384
Value	$4,593,413	$1,123,926	$1,110,373
Mutton and lamb—			
Pounds	2,089,590	2,277,872	2,060,498
Value	$478,016	$274,853	$194,705
Pork—			
Pounds	52,263,286	41,073,293	48,264,738
Value	$13,776,121	$5,049,985	$4,802,343
Edible offal and other fresh meat—			
Pounds	7,651,366	4,632,879	1,440,143
Value	$663,984	$304,196	$103,902
Pork, pickled and other cured:			
Pounds	151,041,949	99,775,805	106,390,708
Value	$47,991,162	$13,432,798	$11,699,374
Sausage:			
Pounds	16,178,905	11,958,878	10,737,835
Value	$3,970,076	$1,454,827	$961,725
Lard:			
Pounds	31,161,615	37,014,963	19,173,185
Value	$9,660,127	$3,987,217	$2,120,334
Tallow and oleo stock:			
Pounds	3,369,164	1,387,078	1,530,506
Value	$608,749	$111,711	$125,075
Grease and soap stock:			
Pounds	5,015,553	4,177,384	(1)
Value	$677,659	$235,282	(1)
Fertilizers and fertilizer materials:			
Tons	6,877	4,507	5,703
Value	$444,508	$149,761	$151,984
Hides and pelts:			
Cattle—			
Number	123,316	70,900	
Pounds	6,360,528	4,080,857	
Value	$1,737,480	$681,747	90,268
Calf—			4,613,282
Number	89,004	77,727	$590,057
Pounds	970,558	858,228	
Value	$538,791	$153,255	
Sheep—			
Number	60,262	60,092	47,917
Value	$193,431	$64,708	$53,386
Hair, hog and cattle:			
Pounds	706,188	(1)	(1)
Value	$45,733	(1)	(1)
All other products, value	$7,943,745	$1,390,479	$1,182,995

[1] Not reported separately.

The increase in the number of animals slaughtered from 1914 to 1919 was 577,684, or 43 per cent. The largest increase was in hogs, 333,666, or 57.8 per cent of the total increase. The total cost of materials in this period increased $61,366,372, or 215 per cent, and the cost of animals slaughtered $47,946,793, or 183.6 per cent. There was an increase in production from 1914 to 1919 in each class of fresh meat except in mutton and lamb, which decreased 188,282 pounds, due to a decrease in the weights of sheep and lambs slaughtered. The average weight for the state in 1914 was 81 pounds, and in 1919, 78 pounds. The only other decrease during this period, that for lard, was 5,853,348 pounds, or 15.8 per cent. There was an increase, however, of more than 2,000,000 pounds in the production of lard compounds and substitutes, but the figures for this product can not be shown without disclosing individual operations. The total value of products in 1919 was $70,001,487 more than in 1914, an increase of 217.5 per cent.

Automobiles, including bodies and parts (Table 21).—This table shows the number and value of the different kinds of automobiles manufactured in this state during 1919, 1914, and 1909. The number of automobiles manufactured in 1919 aggregated 78,200, including 1,035 made as subsidiary products by establishments engaged primarily in other industries. The number manufactured in the automobile industry in 1919 increased 669.3 per cent as compared with 1914. The number of pleasure vehicles produced was over seven times the production of 1914, while the number of trucks and other business vehicles increased over thirteen times during the same period.

TABLE 21.—AUTOMOBILES, INCLUDING BODIES AND PARTS: 1919, 1914, AND 1909.

PRODUCT.	1919		1914		1909	
	Number.	Value.	Number.	Value.	Number.	Value.
Total value	.....	[1]$119,380,641	.....	[1]$18,478,196	.....	$11,440,242
Automobiles, total	77,165	84,442,866	10,030	12,751,616	5,591	7,085,562
Pleasure vehicles	66,939	58,975,968	9,278	11,474,943	5,491	6,996,462
Touring cars	53,234	46,386,957	8,825	10,831,327	[2]5,491	6,996,462
Closed cars	7,207	7,960,749	(3)	(3)	.....	.....
Runabouts, roadsters, and all other	6,498	4,628,262	453	643,616	(4)	(4)
Business vehicles (trucks and all other business vehicles)	10,226	25,466,898	752	1,276,673	100	89,100
Chassis	4,416	3,139,585	(5)	(5)	(5)	(5)
All other products, including bodies and parts and repairs	.....	31,798,190	.....	5,726,580	.....	4,354,680

[1] In addition, in 1919, 3 establishments engaged primarily in the manufacture of other products made 1,035 automobiles and 11 chassis, valued at $2,181,959, and in 1914, 1 such establishment manufactured a number of automobiles, valued at several million dollars.
[2] Includes runabouts.
[3] Included with runabouts and roadsters, to avoid disclosure of individual operations.
[4] Included with "Touring cars" to avoid disclosure of individual operations.
[5] Not reported separately.

Leather, tanned, curried, and finished (Table 22).—This table gives the quantity and cost of the principal materials used and the quantity and value of the chief products reported for this industry at the censuses of 1919, 1914, and 1909.

A great advance in the value of leather products is shown, due to the increased demand for leather incident to the emergency of war.

Cattle side upper leather was the leading leather product in Wisconsin in 1919. Sole leather, of which over 90 per cent was "union" tanned, shows an increase in both quantity and value, as compared with previous censuses. "All other" leather includes upper, fancy, patent, and glove, not made from calfskins, and also finished splits, case, bag, and strap, lace, and skirting leather.

TABLE 22.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	$69,506,028	$33,053,186	$34,828,585
Cattle hides:			
Number	2,649,982	2,185,178	2,471,848
Cost	$34,671,873	$17,658,109	$16,373,708
Calf and kip skins:			
Number	3,718,508	4,650,863	6,986,673
Cost	$24,016,327	$10,620,920	$12,379,806
All other raw stock, cost	$3,616,633	$1,038,745	$1,321,192
Fuel and rent of power, cost	$916,658	$378,948	$386,034
All other materials, cost	$6,284,537	$3,356,464	$4,367,845
PRODUCTS.			
Total value	$94,762,230	$42,204,202	$44,667,676
Leather:			
Sole—			
Sides	1,187,545	1,122,044	839,371
Value	$13,247,813	$7,646,946	$4,414,972
Harness—			
Sides	308,103	631,787	1,331,925
Value	$3,854,044	$4,523,512	$7,987,575
Cattle side upper (other than patent)—			
Sides	4,457,524	2,292,882	2,741,257
Value	$31,165,645	$9,431,174	$8,824,653
Calf and kip skins—			
Number	3,427,179	4,804,157	7,016,966
Value	$29,534,838	$14,066,192	$17,306,021
All other, value	$14,452,157	$5,412,746	$5,159,794
All other products, value	$1,777,591	$1,088,234	$727,112
Work on materials for others, value	$730,142	$38,398	$247,549

Engines, steam, gas, and water (Table 23).—This table shows the number, horsepower, and value of the various types of engines manufactured in the state during the years 1919 and 1914.

The industry shows a remarkable development during the period 1914 to 1919, a condition brought about in a great measure as a result of the war. The largest increase is found in traction engines, which increased in value 1,185 per cent during the period; steam engines increased in value 451.7 per cent, and internal-combustion engines 198.7 per cent. There has also been a tendency to build larger units. In steam engines, the average horsepower per engine in 1919 was 592 as compared with 305 in 1914. Internal-combustion engines averaged approximately 9 horsepower each in 1919 as against 4 horsepower in 1914. The average size of traction engines, however, decreased from 43 horsepower to 25 horsepower.

TABLE 23.—ENGINES, STEAM, GAS, AND WATER: 1919 AND 1914.

	Number by indicated horsepower capacity.						Indicated horsepower capacity.	Value.
	Under 10.	10 but under 50.	50 but under 100.	100 but under 500.	500 but under 1,000.	1,000 and over.		
Total:								
1919	139,419	96,955	2,211	382	112	274	4,317,822	$112,463,844
1914	88,504	12,431	1,726	186	65	35	781,301	19,833,694
The engine industry:								
1919	133,667	83,131	1,865	382	112	274	3,890,523	90,953,496
1914	83,029	11,023	663	89	25	.....	495,926	13,063,336
Subsidiary products from other industries:								
1919	5,752	13,824	346	.....	.....	.....	427,299	21,510,348
1914	5,475	1,408	1,063	97	40	35	285,375	6,770,358
Steam engines:								
1919	.....	1,263	208	210	112	273	1,222,940	11,889,907
1914	31	166	202	165	65	35	202,804	2,155,133
Internal-combustion engines:								
1919	136,558	39,603	299	172	.....	1	1,607,859	26,324,601
1914	88,473	10,422	204	21	.....	.....	443,995	8,813,350
Automobile—								
1919	4,500	33,319	.....	.....	.....	.....	1,087,204	8,788,341
1914	.....	3,123	.....	.....	.....	.....	96,720	703,617
Marine—								
1919	10,351	1,194	30	22	.....	.....	28,828	1,969,093
1914	12,217	163	.....	.....	.....	.....	31,575	825,946
Stationary—								
1919	113,504	4,936	267	144	.....	1	471,134	14,607,123
1914	75,656	7,136	204	21	.....	.....	310,700	7,236,506
Other—								
1919	8,203	154	2	6	.....	.....	20,693	960,044
1914	600	.....	.....	.....	.....	.....	5,000	47,281
Traction, not locomotives:								
1919	2,861	56,089	1,704	.....	.....	.....	1,487,023	48,084,871
1914	.....	1,843	1,320	.....	.....	.....	134,502	3,742,014
Other engines and parts (including water wheels, motors, and turbines):								
1919	.....	.....	.....	.....	.....	.....	.....	4,816,598
1914	.....	.....	.....	.....	.....	.....	.....	2,144,526
Other foundry and machine-shop products:								
1919	.....	.....	.....	.....	.....	.....	.....	16,565,531
1914	.....	.....	.....	.....	.....	.....	.....	2,216,254
All other products:								
1919	.....	.....	.....	.....	.....	.....	.....	4,782,336
1914	.....	.....	.....	.....	.....	.....	.....	762,417

Paper and wood pulp (Table 24).—Wisconsin is one of the leading states in this industry, ranking fourth in 1919 and 1914 in the value of paper and pulp manufactured. The following table shows the quantity and cost of materials used, the quantity and value of the products, and the number and capacity of principal machines used for 1919, 1914, and 1909:

TABLE 24.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	$45,200,945	$20,568,088	$16,692,565
Pulp wood, cost	$10,242,909	$5,586,791	$4,325,839
Wood pulp, purchased:			
Tons	147,888	164,083	157,416
Cost	$10,698,900	$5,830,271	$5,511,750
Ground—			
Tons	43,958	53,827	64,959
Cost	$1,771,919	$1,188,212	$1,457,025
Soda fiber—			
Tons	7,118	11,184	7,573
Cost	$672,379	$474,198	$338,621
Sulphite fiber—			
Tons	77,025	89,952	84,884
Cost	$6,853,194	$3,796,335	$3,716,104
Sulphate fiber—			
Tons	17,012	8,446	(1)
Cost	$1,295,084	$354,899	
Screenings, chemical—			
Tons	2,775	674	
Cost	$106,324	$16,627	

[1] Not reported separately

TABLE 24.—PAPER AND WOOD PULP: 1919, 1914, AND 1909—Con.

	1919	1914	1909
MATERIALS—continued.			
Rags.			
Tons	13,387	17,222	19,741
Cost	$1,516,010	$624,700	$595,554
Paper stock, including high-grade shavings and old and waste paper:			
Tons	72,635	39,947	29,607
Cost	$1,635,564	$372,869	$591,019
China clay:			
Tons	24,335	(1)	(1)
Cost	$432,947		
Bleaching powder:			
Tons	9,543		
Cost	$539,833		
All other paper stock, cost	$119,507	$535,734	$136,496
All other materials, including fuel, cost	$20,015,275	$7,117,723	$5,531,907
PRODUCTS.			
Total value	$80,328,483	$31,205,395	$25,962,099
News paper:			
Tons	115,987	135,336	[2] 169,151
Value	$9,738,081	$5,551,537	$7,201,706
Hanging paper:			
Tons	15,726	14,870	(3)
Value	$1,071,483	$585,369	
Book, cover, and plate paper:			
Tons	93,996	75,183	58,705
Value	$12,583,710	$5,164,705	$3,881,708
Fine paper:			
Tons	37,843	31,694	27,379
Value	$10,229,778	$3,769,713	$3,271,402
Air dried—			
Tons	19,363	(1)	(1)
Value	$6,070,369		
All other—			
Tons	18,480		
Value	$4,159,409		
Wrapping paper:			
Tons	165,842	145,584	98,083
Value	$20,089,146	$7,766,319	$5,083,757
Heavy wrapping (mill wrappers, etc.)—			
Tons	23,952	11,424	(1)
Value	$2,324,571	$442,364	
Kraft—			
Tons	36,897	15,808	
Value	$5,249,615	$994,977	
All other—			
Tons	104,993	118,352	
Value	$12,514,960	$6,328,978	
Boards:			
Tons	83,432	(3)	(3)
Value	$6,522,289		
Tissue paper:			
Tons	29,498	15,355	10,835
Value	$5,528,470	$1,515,482	$988,516
Other paper products:			
Tons	28,981	54,003	24,506
Value	$2,806,231	$2,464,082	$914,835
Wood pulp made for sale or for consumption in mills other than where produced:			
Tons	130,267	130,857	111,683
Value	$8,036,752	$4,154,159	$3,711,517
All other products, value	$3,722,543	$234,029	$908,658
Wood pulp produced (including that used in mills where manufactured), total tons	506,549	404,766	321,213
Ground, tons	225,843	189,221	166,822
Sulphite fiber	233,591	188,797	154,391
Sulphate fiber	44,119	24,633	(1)
Screenings, chemical	2,996	[4] 2,115	(1)
EQUIPMENT.			
Paper machines:			
Total number	120	117	99
Capacity, yearly, tons	685,067	537,857	431,763
Fourdrinier—			
Number	104	106	91
Capacity, per 24 hours, tons	1,666	1,564	1,315
Cylinder—			
Number	16	11	8
Capacity, per 24 hours, tons	474	257	108
Pulp equipment:			
Grinders—			
Number	237	252	233
Capacity, yearly, tons	291,882	202,483	270,561
Digesters—			
Number	76	65	53
Capacity, yearly, tons	333,167	247,762	167,121

[1] Not reported separately.
[2] Includes "poster paper."
[3] Included in "other paper products."
[4] Includes 832 tons of mechanical screenings.

Of the 854,185 cords of pulp wood used in 1919, 417,868 cords were hemlock; 282,370 cords, spruce; 79,772 cords, balsam fir; and 74,175 cords, other

woods. The item "All other materials" includes fuel amounting to $5,633,304, chemicals, sizing, sulphur, dyestuffs, and mill supplies.

Wrapping paper was the principal product of the industry in 1919 and 1914, forming 25 per cent of the total value of products in 1919. Book paper was next in importance, representing 15.7 per cent; fine paper, 12.7 per cent; and news paper, 12.1 per cent.

To avoid disclosing data of individual establishments, poster, novel, building, roofing, and sheathing paper, and tag stock are included in "Other paper products."

Lumber and timber products (Table 25).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. The lumber industry in Wisconsin did not become of great prominence until 1869. In 1879 the state ranked third among the states in the production of lumber; in 1889, second; and in 1899, first.

The cut reported for 1899, 3,389,166,000 feet, has not been exceeded in any year for which records are available. In 1909, the state ranked eighth; in 1914, tenth; and in 1919, eleventh. Wisconsin, like Michigan and Minnesota, produced great quantities of white pine lumber. This timber has been largely cut out, however, and in 1919 white pine contributed only 11.3 per cent of the total cut for the state.

The lumber cut from the principal species in 1919 was reported as follows: Hemlock, 439,757,000 feet, or 39.4 per cent of the total cut from all species in the state; maple, 177,125,000 feet, or 15.9 per cent; birch, 174,873,000 feet, or 15.7 per cent; white pine, 125,959,000 feet, or 11.3 per cent; basswood, 69,545,000 feet, or 6.2 per cent; and elm, 51,242,000 feet, or 4.6 per cent. Among other woods sawed into lumber in considerable quantities were oak, larch, ash, and spruce.

TABLE 25.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY.[1]		
	1919	1914	1909
Lumber.....M feet b. m..	1,116,338	1,391,001	2,025,038
Lath.....thousands..	138,936	(2)	299,845
Shingles.....thousands..	96,928	(2)	392,863

[1] The output of custom mills is included in 1919 and 1909, but not in 1914.
[2] Not reported.

Flour-mill and gristmill products (Table 26).—This table shows the kind, quantity, and value of the different products of the industry in Wisconsin, for 1919, 1914, and 1909.

TABLE 26.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$58,394,432	$28,607,413	$31,667,434
Wheat flour:			
Barrels	2,809,320	3,056,954	3,499,965
Value	$30,604,789	$13,817,821	$17,909,089
Rye flour:			
Barrels	601,350	561,475	549,359
Value	$5,092,950	$2,248,927	$2,194,220
Buckwheat flour:			
Pounds	11,573,754	8,506,653	9,330,781
Value	$418,639	$262,111	$300,929
Barley meal:			
Pounds	761,376	1,533,447	5,817,400
Value	$31,188	$20,941	$91,494
Corn meal and corn flour:			
Barrels	209,961	168,531	85,532
Value	$1,173,791	$610,958	$287,740
Hominy and grits:			
Pounds	29,310,186	94,955,277	12,797,800
Value	$1,021,825	$1,533,997	$179,147
Bran and middlings:			
Tons	118,872	106,354	402,784
Value	$5,058,171	$2,388,856	$10,086,448
Feed and offal:			
Tons	301,160	269,465	
Value	$14,802,574	$7,622,990	
Breakfast foods:			
Pounds	1,669,255	1,238,242	.....
Value	$85,321	$36,187	.....
All other cereal products, value	$11,916	$101,591	$31,667
All other products, value	$3,268	$53,124	$586,700

Boots and shoes (Tables 27 and 28).—Table 27 shows the number of pairs and value of the various kinds of footwear manufactured in 1919, 1914, and 1909.

TABLE 27.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

KIND.	NUMBER OF PAIRS AND VALUE.		
	1919	1914	1909
Aggregate value	$44,373,938	$17,643,350	[1]$13,113,831
Boots and shoes:			
Total number of pairs	10,490,408	8,017,963	6,777,363
Total value	$42,472,598	$16,776,609	.....
Men's—			
Number of pairs	6,340,008	5,000,827	4,055,496
Value	$28,219,906	$11,997,860	.....
Boys' and youths'—			
Number of pairs	1,894,948	865,138	652,109
Value	$6,452,883	$1,544,770	.....
Women's—			
Number of pairs	1,578,289	1,336,525	1,442,341
Value	$5,805,137	$2,198,235	.....
Misses' and children's—			
Number of pairs	677,163	815,473	627,417
Value	$1,994,672	$1,035,744	.....
Slippers:			
Total number of pairs	51,266	135,999	204,872
Total value	$114,397	$191,027	.....
Men's, boys', and youths'—			
Number of pairs	13,522	21,515	39,018
Value	$27,723	$19,858	.....
Women's, misses', and children's—			
Number of pairs	37,744	114,484	165,854
Value	$86,674	$171,169	.....
Infants' shoes and slippers:			
Number of pairs	58,968	170,332	145,319
Value	$117,162	$120,337	.....
All other footwear:			
Number of pairs	541,814	58,588	169,075
Value	$1,236,994	$44,609	.....
All other products, including amount received for work done for others, value	$432,787	$510,768	.....

[1] Aggregate value only reported in 1909.

The total production reported shows a normal increase for both census periods. Men's shoes constituted 60.4 per cent of the total number produced in the state in 1919, as against 62.4 per cent in 1914. There was an increase, however, of 26.8 per cent in the number of pairs reported for 1919 as compared with 1914. Boys' and youths' shoes formed 18.1 per cent of the total production in 1919, and 10.8 per cent in 1914. The number of pairs reported shows an increase for the five-year period of 119 per cent. Women's, misses', and children's shoes formed 21.5 per cent of the total production in 1919, and 26.8 per cent in 1914. There was only a normal increase in production for the five-year period, although the aggregate value reported in 1919 was more than double that of 1914 and more than three times that of 1909. The total value only is given for 1909, as the value was not reported separately in that year for the various kinds of footwear.

Table 28 shows that more welted boots and shoes were manufactured in Wisconsin in 1919 than any other type. The number of "Welted" boots and shoes increased from 30.5 per cent of the total in 1914 to 56.4 per cent in 1919, while the number manufactured by the "McKay" method decreased from 39.3 per cent in 1914 to 13.5 per cent in 1919. Men's, boys' and youths', and women's shoes in 1919 were principally of the "Welted" type, while misses' and children's were McKay.

TABLE 28.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

KIND.	Census year.	Total.	Welted.	McKay.	Turned and wood or metal fastened.	Stitch-down.
Boots and shoes	1919	10,490,403	5,918,073	1,414,991	2,977,048	180,296
	1914	8,017,963	2,448,789	3,152,510	2,416,664	(1)
Men's	1919	6,340,008	4,079,042	377,571	1,883,395	.....
	1914	5,000,827	2,032,552	1,474,653	1,493,622	.....
Boys' and youths'	1919	1,894,948	1,063,798	354,443	476,707	.....
	1914	865,138	128,627	387,357	349,154	.....
Women's	1919	1,578,289	645,134	391,074	528,403	13,678
	1914	1,336,525	227,113	573,427	535,985	(1)
Misses' and children's	1919	677,163	130,099	291,903	88,543	166,618
	1914	815,473	60,497	717,073	37,903	(1)
All other footwear	1919	652,048	64,375	273,276	295,987	18,410
	1914	364,919	51,635	151,815	161,469	(1)

[1] Not reported separately.

Agricultural implements (Table 29).—The following table shows the value of the principal classes of agricultural implements manufactured in the state for 1919 and 1914.

Wisconsin ranked second in both 1919 and 1914 in the manufacture of agricultural implements in the United States. The total value of its output in 1919 was $43,623,368 as compared with $20,119,058 in 1914, an increase of $23,504,310, or 116.8 per cent, for the five-year period. Special statistics were not shown for the different classes of implements in 1914, but the rapidity of growth of the industry justifies a separate presentation of comparative figures for 1919 and 1914, which will constitute the basis of comparison for future censuses. Planters and seeders and seed separators were combined to avoid the possibility of disclosing the operations of individual establishments.

The total value of products includes subsidiary products made in establishments engaged primarily in the manufacture of agricultural implements. In 1919 such products amounted to $23,019,557, of which $22,115,338 represented the value of automobiles, engines and tractors, and $904,219 the value of other products.

TABLE 29.—AGRICULTURAL IMPLEMENTS: 1919 AND 1914.

	1919	1914
Products, total value	$43,623,368	$20,119,058
Plows and cultivators	2,028,830	2,077,159
Planters and seeders and seed separators	7,011,096	4,891,071
All other agricultural implements, including parts	11,526,730	3,202,573
All other products	23,019,557	9,889,369
Amount received for repair work	37,155	58,886

Printing and publishing (Table 30).—This table shows the number and aggregate circulation per issue of the various classes of newspapers and periodicals reported in Wisconsin in 1919, 1914, and 1909.

Although there was a considerable decrease in total number of publications from 1914 to 1919, the aggregate circulation increased 17.2 per cent.

There were 70 foreign-language publications in 1919 as compared with 86 in 1914. Their aggregate circulation per issue in 1919 shows a reduction of 3.8 per cent from 1914, principally in publications printed in German. Of the foreign-language publications in 1919, 44 were in German—2 dailies, 1 Sunday, 31 weeklies, 4 semiweeklies, 4 monthly publications, 1 semimonthly, and 1 bimonthly; 4 were in Norwegian—all weeklies; 3 in Finnish—1 each daily, weekly, and semimonthly; 10 in Polish—2 dailies, 1 Sunday, 3 weeklies, and 4 monthly publications; 2 in Bohemian—both weeklies; 2 in Yiddish—1 daily and 1 weekly; 1 in Slovenian—a weekly; and 4 in English and German—1 each weekly, monthly, quarterly, and bimonthly.

TABLE 30.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total	593	648	677	2,521,583	2,150,934	2,121,662
Daily	57	66	65	605,213	515,219	401,886
Sunday	7	8	8	243,173	207,722	130,778
Semiweekly	8	19	23	67,221	130,414	42,708
Weekly	440	486	512	1,103,137	973,943	1,012,502
Semimonthly	5	5	2	33,800	18,250	23,000
Monthly	60	56	56	411,039	267,130	468,088
Quarterly	11	5	5	30,600	6,350	14,800
All other classes [1]	5	3	6	27,400	31,901	27,900

[1] Includes in 1919, 5, and in 1914, 3, bimonthly publications; and in 1909, 4 bimonthly and 2 "All other" publications.

Power laundries (Table 31).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 31, however, summarizes the statistics for such laundries in the state of Wisconsin for 1919 and 1914.

TABLE 31.—POWER LAUNDRIES: 1919 AND 1914.

	Number or amount.		Per cent of increase,[1] 1914–1919.
	1919	1914	
Number of establishments	145	150	−3.3
Persons engaged	2,529	2,645	−4.4
Proprietors and firm members	135	161	−16.1
Salaried employees	271	219	23.7
Wage earners (average number)	2,123	2,265	−6.3
Primary horsepower	4,071	3,175	28.2
Capital	$2,033,647	$1,794,553	46.8
Salaries and wages	1,690,348	1,140,965	48.2
Salaries	362,073	201,026	80.1
Wages	1,328,275	939,939	41.3
Paid for contract work	3,141	3,002	4.6
Rent and taxes	102,678	83,481	23.0
Cost of materials	926,618	526,486	76.0
Amount received for work done	3,650,118	2,353,183	55.1

[1] A minus sign (−) denotes decrease.

Dyeing and cleaning (Table 32).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from hand trades, household industries, etc.

TABLE 32.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments	42
Persons engaged	632
Proprietors and firm members	39
Salaried employees	118
Wage earners (average number)	475
Primary horsepower	561
Capital	$579,471
Salaries and wages	559,255
Salaries	152,182
Wages	407,073
Paid for contract work	9,834
Rent and taxes	64,727
Cost of materials	361,122
Amount received for work done	1,369,183

Custom gristmills and custom sawmills (Tables 33 and 34).—Statistics for custom gristmills and custom sawmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914. Tables 33 and 34 summarize the statistics for such mills for 1919 and 1909. The value of products for custom gristmills represents the selling value of the grain milled, and for the sawmills the amount charged for the work performed.

TABLE 33.—CUSTOM GRISTMILLS: 1919 AND 1909.

	Number or amount.		Per cent of increase,[1] 1909–1919.
	1919	1909	
Number of establishments	382	371	3.0
Persons engaged	688	638	7.8
Proprietors and firm members	431	447	−3.6
Salaried employees	27	9	.....
Wage earners (average number)	230	182	26.4
Primary horsepower	17,735	15,076	17.6
Capital	$2,784,440	$1,667,710	67.0
Salaries and wages	241,048	79,967	201.4
Salaries	20,776	4,285	384.9
Wages	220,272	75,682	191.0
Rent and taxes	45,131	18,949	138.2
Cost of materials[2]	13,383,729	4,864,846	175.1
Value of products[2]	15,339,862	5,578,660	175.0

[1] A minus sign (−) denotes decrease; percentages are omitted where base is less than 100.
[2] Includes estimate of all grain ground.

TABLE 34.—CUSTOM SAWMILLS: 1919 AND 1909.

	Number or amount.		Per cent of increase,[1] 1909–1919.
	1919	1909	
Number of establishments	185	251	−26.3
Persons engaged	346	732	−52.7
Proprietors and firm members	234	367	−36.2
Salaried employees	2	2	.....
Wage earners (average number)	110	363	−69.7
Primary horsepower	6,197	6,930	−10.6
Capital	$353,074	$432,029	−18.3
Salaries and wages	75,968	116,291	−34.7
Salaries	341	190	79.5
Wages	75,627	116,101	−34.9
Rent and taxes	4,047	3,425	18.2
Cost of materials	56,078	5,456	927.8
Amount received for work done	249,787	291,736	−14.4

[1] A minus sign (−) denotes decrease.

GENERAL TABLES.

Table 35 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the state and in Milwaukee, and for Racine and cities of 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

Table 36 presents, for 1919, for the state as a whole and for Milwaukee and Racine statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and for all cities of 10,000 to 50,000 inhabitants, similar data for all industries combined.

TABLE 35.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.							
All industries	1919	10,393	263,949	878,682	290,441	1,127,275	1,846,984
	1914	9,104	194,310	682,329	112,193	417,415	695,172
	1909	9,721	182,583	554,179	93,905	346,357	590,306
Agricultural implements	1919	34	5,237	10,673	7,582	18,486	43,623
	1914	46	3,143	9,196	2,198	8,676	20,119
	1909	45	2,704	7,301	1,506	3,937	11,411
Artificial stone products	1919	129	313	1,083	374	565	1,377
	1914	130	404	736	245	278	714
	1909	119	377	669	189	235	624
Automobiles, including bodies and parts.	1919	95	13,585	22,892	19,634	75,176	119,381
	1914	43	4,889	9,827	3,908	10,465	18,478
	1909	30	4,298	3,153	2,733	5,340	11,440
Awnings, tents, and sails	1919	21	98	44	80	318	536
	1914	23	84	36	37	130	228
	1909	16	66	26	31	93	179
Boots and shoes, including findings.	1919	71	7,836	4,946	6,819	28,671	45,699
	1914	65	5,814	3,932	2,716	12,122	17,832
	1909	68	5,431	2,923	2,243	8,753	13,602
Boxes, paper and other, not elsewhere specified.	1919	24	1,636	878	1,174	2,455	5,095
	1914	18	1,319	1,554	535	1,119	2,327
	1909	15	824	331	262	639	1,317
Brass and bronze products	1919	36	2,778	13,096	3,748	15,331	22,510
	1914	30	1,122	7,053	674	4,395	5,409
	1909	33	1,289	6,102	751	3,514	5,387
Bread and other bakery products.	1919	742	2,546	2,347	2,512	12,996	20,130
	1914	704	2,197	1,276	1,248	4,536	8,058
	1909	667	1,751	944	929	4,023	6,872
Brick and tile, terra-cotta, and fire-clay products.[1]	1919	50	414	3,807	397	390	1,241
	1914	78	875	4,293	452	342	1,230
	1909	108	1,027	5,640	510	282	1,191
Brooms, from broom corn	1919	25	121	74	126	380	624
	1914	26	96	58	51	160	266
	1909	30	101	75	53	190	313
Brushes	1919	12	149	162	136	286	647
	1914	11	129	155	62	93	270
	1909	14	142	169	52	80	249
Butter, cheese, and condensed milk.	1919	2,872	5,973	32,244	6,739	197,984	221,447
	1914	2,431	3,717	23,365	2,712	65,326	72,859
	1909	2,630	2,863	16,467	1,877	48,006	53,843
Canning and preserving [2]	1919	129	2,909	11,930	2,220	10,650	18,067
	1914	112	2,687	8,730	1,064	4,570	7,335
	1909	83	1,776	4,915	639	2,967	4,807
Carriages and sleds, children's.	1919	4	452	565	400	721	1,356
	1914	4	454	392	191	309	648
	1909	6	357	458	129	213	454
Carriages and wagons and materials.	1919	124	1,498	3,975	1,786	4,507	9,455
	1914	185	2,638	5,502	1,827	4,259	7,544
	1909	286	3,437	6,426	1,930	5,163	8,899
Cars and general shop construction and repairs by electric-railroad companies.	1919	17	579	1,956	791	1,706	2,623
	1914	16	401	2,110	270	375	649
	1909	9	215	711	151	115	205
Cars and general shop construction and repairs by steam-railroad companies.	1919	58	12,491	6,959	16,360	18,957	36,791
	1914	35	9,011	7,283	5,718	4,540	10,921
	1909	22	8,994	4,196	5,234	8,676	14,332
Chemicals	1919	30	187	1,376	204	1,129	2,074
	1914	7	60	362	36	230	436
	1909	5	76	495	41	242	513
Cleansing and polishing preparations.	1919	14	120	420	125	883	2,164
	1914	11	103	217	69	305	703
Clothing, horse	1919	5	183	383	159	1,223	1,908
	1914	6	557	435	227	1,135	1,658
	1909	5	494	318	145	870	1,276
Clothing, men's, including shirts.	1919	65	3,843	1,265	2,947	12,195	19,931
	1914	59	3,584	858	1,457	4,994	8,688
	1909	94	4,252	691	1,463	5,448	9,405
Clothing, women's	1919	29	844	205	427	2,015	3,221
	1914	21	521	92	187	551	980
	1909	19	565	64	186	503	928
Coffee, roasting and grinding	1919	12	156	566	167	2,855	3,464
	1914	8	70	356	37	609	809
	1909	9	74	462	33	601	780
Coffins, burial cases, and undertakers' goods.	1919	8	503	1,112	421	1,062	2,663
	1914	5	356	685	201	415	905
	1909	8	349	622	159	384	754
Confectionery and ice cream	1919	150	4,123	5,910	2,744	14,420	24,38[illegible]
	1914	100	2,429	2,990	936	4,501	7,24[illegible]
Cooperage and wooden goods, not elsewhere specified.	1919	29	1,098	3,628	1,046	1,968	4,30[illegible]
	1914	35	638	2,227	344	690	1,21[illegible]
	1909	48	1,208	3,658	618	1,119	2,39[illegible]
Copper, tin, and sheet-iron products.[3]	1919	207	4,814	8,233	5,590	14,631	30,26[illegible]
	1914	111	3,372	3,947	1,930	5,583	10,20[illegible]
	1909	105	2,780	2,325	1,188	4,656	7,13[illegible]
Cutlery and tools, not elsewhere specified.	1919	40	666	1,388	749	626	2,152
	1914	19	208	583	113	151	382
	1909	16	118	516	64	123	28[illegible]
Dairymen's, poultrymen's, and apiarists' supplies.	1919	33	501	1,264	519	1,661	3,065
	1914	28	345	800	213	831	1,666
	1909	22	526	964	279	711	1,329
Electrical machinery, apparatus, and supplies.	1919	43	5,875	7,470	6,028	9,368	23,636
	1914	29	2,115	3,616	1,340	2,064	5,397
	1909	30	1,409	2,333	820	1,451	3,836
Flavoring extracts	1919	9	35	4	26	369	515
	1914	7	21	4	11	133	217
	1909	11	19	43	7	101	141
Flour-mill and gristmill products.	1919	221	1,348	30,245	1,561	51,737	58,304
	1914	252	1,116	26,350	737	24,980	26,697
	1909	322	1,184	31,903	695	27,038	31,867
Food preparations, not elsewhere specified.	1919	42	921	5,853	967	7,955	13,142
	1914	30	478	3,400	267	1,384	4,853
	1909	28	526	2,738	243	2,844	5,535
Foundry and machine-shop products.[4]	1919	1,238	43,532	91,877	52,985	94,146	208,791
	1914	494	26,521	46,622	18,061	28,162	60,698
	1909	444	24,219	33,709	14,601	22,534	54,124
Fur goods	1919	34	280	137	275	1,149	1,992
	1914	36	225	140	129	368	711
	1909	40	413	197	219	927	1,524
Furniture and refrigerators	1919	114	11,007	21,095	11,785	19,191	43,522
	1914	114	11,792	20,770	5,925	10,642	22,587
	1909	114	11,118	18,667	5,136	8,795	18,656
Gas and electric fixtures	1919	10	307	247	231	565	1,310
	1914	7	222	104	132	286	643
	1909	13	552	353	358	707	1,466
Gas, illuminating and heating.	1919	34	1,294	7,869	1,556	3,575	8,153
	1914	47	1,240	11,159	722	1,816	5,295
	1909	49	1,063	3,278	583	1,389	4,001
Gloves and mittens, leather	1919	28	1,728	609	1,205	4,267	6,773
	1914	24	1,711	670	589	1,746	2,922
	1909	23	1,642	301	573	1,637	2,799
Grease and tallow, not including lubricating greases.	1919	13	51	381	64	436	710
	1914	10	50	225	40	251	326
	1909	11	36	126	24	197	280
Iron and steel, steel works and rolling mills.	1919	12	3,929	27,433	4,329	14,346	28,393
	1914	12	2,029	15,215	1,293	3,555	6,009
	1909	14	2,124	10,064	1,409	7,906	10,733
Knit goods	1919	72	8,736	5,413	5,777	24,217	40,778
	1914	68	6,244	3,629	2,448	7,025	13,202
	1909	61	4,282	2,312	1,579	3,887	7,843
Leather goods [5]	1919	73	1,644	1,549	1,408	6,105	10,677
	1914	111	1,490	1,397	753	3,234	5,323
	1909	48	2,099	1,442	922	3,010	5,382
Leather, tanned, curried, and finished.	1919	25	6,825	24,808	8,011	69,506	94,762
	1914	27	5,869	20,142	3,404	33,053	42,204
	1909	32	7,548	17,112	3,988	34,829	44,668
Lime	1919	20	392	2,731	359	417	1,130
	1914	30	828	4,032	450	827	1,570
	1909	43	776	1,984	412	507	1,272
Liquors, malt	1919	77	2,815	23,012	3,268	11,483	35,530
	1914	132	5,414	28,326	3,913	13,703	40,884
	1909	136	5,061	23,248	3,045	7,898	32,126
Lumber and timber products [6]	1919	605	28,822	94,891	26,296	39,083	88,883
	1914	635	32,282	107,257	16,545	25,468	55,383
	1909	1,020	34,093	124,286	16,059	25,587	57,969
Malt	1919	20	484	8,946	650	14,798	18,064
	1914	25	637	10,545	536	12,489	15,533
	1909	25	456	7,642	318	7,823	9,597
Marble and stone work	1919	131	1,287	5,118	1,430	1,705	4,726
	1914	117	1,390	3,416	996	1,168	2,914
	1909	136	2,593	4,847	1,827	1,217	4,114

[1] Includes "pottery" and "sand-lime brick" in 1914 and 1909.
[2] Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; and "pickles and sauces."
[3] Includes "stamped and enameled ware, not elsewhere specified," in all years, and "tinware, not elsewhere specified", in 1914 and 1909.
[4] Includes "automobile repairing"; "engines, steam, gas, and water"; "gas and water meters"; "hardware"; "hardware, saddlery"; "iron and steel, tempering and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts."
[5] Includes "saddlery and harness" and "trunks and valises" in all years, and "pocketbooks" in 1919 and 1909.
[6] Includes "boxes, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills."

TABLE 35.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.		
Mats and matting, from cocoa fiber, grass, and coir.	1919	5	648	606	447	1,256	2,822
	1914	4	455	594	212	525	1,030
Mattresses and spring beds, not elsewhere specified.	1919	25	569	714	491	1,595	3,008
	1914	18	384	771	214	648	1,089
	1909	21	504	917	241	858	1,444
Millinery and lace goods, not elsewhere specified.	1919	13	851	242	699	1,597	3,353
	1914	10	656	311	322	1,198	2,155
	1909	7	307	163	147	338	556
Mineral and soda waters	1919	182	468	1,047	453	2,098	4,904
	1914	176	375	739	216	845	1,869
	1909	169	346	543	175	683	1,579
Mirrors, framed and unframed, not elsewhere specified.	1919	7	68	320	87	397	714
	1914	4	81	300	56	168	274
	1909	5	87	190	49	199	316
Models and patterns, not including paper patterns.	1919	40	365	350	482	182	1,077
	1914	24	117	199	76	41	186
	1909	20	112	190	65	46	185
Musical instruments, pianos	1919	7	448	582	438	1,484	2,670
	1914	6	495	553	307	866	1,470
	1909	6	281	211	151	387	688
Paints	1919	9	372	1,742	415	5,050	6,702
	1914	9	192	985	104	1,127	1,586
	1909	11	193	935	99	1,026	1,492
Paper and wood pulp	1919	57	12,789	237,239	14,010	45,201	80,328
	1914	58	8,968	191,693	5,339	20,568	31,205
	1909	57	7,467	136,903	3,891	16,693	25,962
Paper goods, not elsewhere specified.	1919	17	1,106	2,787	1,130	5,481	8,222
	1914	7	188	860	97	392	743
	1909	11	329	744	122	595	988
Patent medicines and compounds and druggists' preparations.[1]	1919	61	232	223	172	1,105	2,644
	1914	62	278	275	131	510	1,442
	1909	62	269	219	118	445	1,707
Paving materials	1919	33	450	7,304	653	232	1,312
	1914	16	872	4,161	551	319	1,116
Printing and publishing[2]	1919	842	5,838	7,442	5,932	9,090	26,467
	1914	829	5,653	6,527	3,473	4,847	14,455
	1909	833	5,360	5,293	2,913	3,386	11,861
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	8	4,557	12,567	5,672	19,920	36,369
	1914	5	1,637	4,107	1,005	4,095	7,382
Shipbuilding, including boat building.	1919	35	7,855	10,591	12,441	20,367	44,164
	1914	34	695	3,875	421	451	1,254
	1909	52	906	3,506	540	819	1,081
Signs and advertising novelties.	1919	17	461	148	308	491	1,140
	1914	6	313	105	127	204	445
	1909	3	36	52	14	27	50
Slaughtering and meat packing.[3]	1919	49	3,462	8,509	3,994	92,944	106,207
	1914	46	2,236	4,874	1,381	30,541	34,698
	1909	48	1,890	3,283	1,042	23,403	27,217
Soap	1919	11	691	729	607	5,720	8,909
	1914	11	272	339	132	1,369	2,894
	1909	16	213	487	89	910	1,611
Stoves and hot-air furnaces	1919	10	858	1,876	1,075	2,266	4,129
	1914	9	859	1,408	516	1,308	2,851
Tobacco manufactures	1919	552	1,959	882	1,692	4,559	10,008
	1914	756	2,485	358	1,322	2,626	6,779
	1909	775	2,391	286	1,106	2,507	6,142
Upholstering materials, not elsewhere specified.	1919	12	365	1,816	337	918	1,624
	1914	15	339	1,769	172	629	994
	1909	14	201	1,550	90	272	472
Wirework, not elsewhere specified.	1919	13	269	580	300	797	1,826
	1914	18	327	742	198	811	1,299
	1909	18	226	405	143	545	892
Woolen and worsted goods	1919	24	1,070	2,985	827	3,339	5,495
	1914	22	795	2,103	374	1,259	1,956
All other industries	1919	486	21,348	74,278	23,709	82,504	142,967
	1914	385	12,741	48,622	7,498	28,024	50,785
	1909	481	14,158	41,096	6,697	26,051	48,406

[1] Includes "perfumery and cosmetics."
[2] Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
[3] Includes "sausage, not made in slaughtering and meat-packing establishments."

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TABLE 35.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.		
MILWAUKEE. All industries.	1919	2,093	84,222	162,672	89,921	341,768	576,161
	1914	1,728	61,839	122,178	36,270	124,876	223,555
	1909	1,764	59,502	94,254	31,437	120,621	208,324
Artificial stone products	1919	17	79	223	102	204	457
	1914	9	60	104	36	68	145
	1909	9	80	238	47	60	161
Automobile bodies and parts	1919	37	1,389	2,224	1,645	3,605	6,942
	1914	13	522	558	387	510	1,195
Awnings, tents, and sails	1919	8	51	25	43	157	269
	1914	8	41	12	22	60	108
	1909	6	34	9	18	48	89
Boots and shoes	1919	26	4,917	3,017	4,457	18,434	30,007
	1914	23	3,711	2,574	1,763	8,105	11,666
	1909	20	2,702	1,243	1,146	4,781	7,432
Boxes, paper and other, not elsewhere specified.	1919	9	1,193	629	907	1,974	4,027
	1914	6	1,013	1,382	434	932	1,959
Brass and bronze products	1919	22	614	673	599	1,596	2,952
	1914	19	394	631	233	703	1,175
Bread and other bakery products.	1919	329	1,478	974	1,418	7,029	11,309
	1914	324	1,270	696	683	2,547	4,571
	1909	318	975	509	528	2,213	3,824
Brooms, from broom corn	1919	8	47	18	57	146	219
	1914	12	41	23	24	77	121
	1909	11	52	24	30	97	144
Clothing, men's	1919	38	2,471	643	2,062	7,121	12,027
	1914	30	2,049	278	870	2,947	5,229
Clothing, women's	1919	18	422	150	247	1,003	1,819
	1914	16	434	71	167	486	863
	1909	14	391	45	139	352	669
Confectionery and ice cream	1919	39	2,907	3,501	1,953	9,788	16,816
	1914	23	1,532	2,073	616	3,097	4,943
Cooperage	1919	7	129	275	133	452	711
	1914	7	155	248	95	244	392
Copper, tin, and sheet-iron work.	1919	58	373	357	452	759	1,708
	1914	34	258	90	178	299	636
Electrical machinery, apparatus, and supplies.	1919	21	4,329	6,152	4,532	6,410	16,578
	1914	13	1,632	2,647	1,040	1,397	3,995
	1909	18	998	1,537	598	928	2,749
Food preparations, not elsewhere specified.	1919	21	354	2,440	340	4,445	5,700
	1914	14	118	873	66	599	843
	1909	18	145	680	78	1,589	1,949
Foundry and machine-shop products.[1]	1919	280	15,193	23,425	18,531	32,721	75,940
	1914	136	8,462	11,735	5,923	9,536	20,312
	1909	125	7,881	9,305	4,762	7,000	18,146
Fur goods	1919	25	228	105	236	873	1,613
	1914	21	162	56	99	273	540
	1909	27	349	141	201	833	1,360
Furniture	1919	31	1,145	1,634	1,141	2,073	4,313
	1914	26	1,228	1,952	681	990	2,397
Gloves and mittens, leather	1919	13	1,112	446	768	2,615	4,193
	1914	10	681	441	252	858	1,339
	1909	8	757	190	304	944	1,503
Hats and caps, other than felt, straw, and wool.	1919	8	62	14	71	80	317
	1914	5	70	13	43	73	153
	1909	8	67	10	35	62	139
Iron and steel, steel works and rolling mills.	1919	6	1,568	16,418	2,453	9,461	13,841
	1914	8	1,858	14,755	1,178	3,438	5,645
Knit goods	1919	37	4,643	2,787	3,160	14,435	24,015
	1914	36	2,871	1,464	1,170	3,347	7,185
	1909	29	1,925	877	631	1,689	3,417
MILWAUKEE—Con.							
Leather, tanned, curried, and finished.	1919	9	3,846	14,029	4,535	39,833	54,007
	1914	10	3,650	11,295	2,106	17,666	22,898
	1909	12	4,903	9,931	2,637	21,468	27,484
Liquors, malt	1919	6	1,672	13,341	1,925	7,164	22,509
	1914	11	3,610	15,579	2,646	8,929	27,682
	1909	10	3,071	12,890	1,818	4,373	19,643
Lumber, planing-mill products, not including planing mills connected with sawmills.[2]	1919	34	1,799	5,149	1,943	4,943	9,442
	1914	22	2,119	5,349	1,205	2,779	4,933
	1909	30	2,383	7,525	1,207	3,791	6,053
Malt	1919	7	160	4,159	252	6,446	7,640
	1914	6	168	2,615	189	3,837	4,754
	1909	6	146	2,475	106	2,724	3,483
Marble and stone work	1919	23	174	1,139	227	430	936
	1914	24	465	1,374	395	440	1,014
	1909	26	347	983	291	317	862
Mattresses and spring beds, not elsewhere specified.	1919	9	267	485	234	876	1,679
	1914	8	212	443	122	374	665
	1909	9	246	398	113	457	760
Millinery and lace goods, not elsewhere specified.	1919	13	851	242	699	1,597	3,353
	1914	10	656	311	322	1,198	2,155
	1909	7	307	163	147	338	556
Mineral and soda waters	1919	24	120	78	131	310	673
	1914	13	36	32	30	30	100
	1909	8	28	22	16	18	57
Models and patterns, not including paper patterns.	1919	25	257	200	323	143	776
	1914	17	100	127	64	35	156
	1909	17	96	148	54	42	164
Paints	1919	5	212	785	261	3,067	4,263
	1914	5	178	820	97	1,095	1,532
	1909	6	169	775	85	975	1,395
Patent medicines and compounds and druggists' preparations.[3]	1919	34	100	112	79	585	1,185
	1914	29	155	99	69	251	727
	1909	25	155	54	70	234	901
Photo-engraving	1919	5	90	50	141	48	377
	1914	6	120	34	107	87	279
	1909	7	163	55	125	42	291
Printing and publishing[4]	1919	199	3,245	3,292	3,520	5,854	15,978
	1914	182	2,943	3,369	1,935	3,023	8,315
	1909	188	2,949	2,956	1,739	2,165	7,119
Saddlery and harness	1919	11	267	110	323	2,310	3,695
	1914	23	472	189	239	1,543	2,220
	1909	9	407	98	218	811	1,294
Sausage, not made in slaughtering and meat-packing establishments.	1919	14	193	727	246	2,508	3,337
	1914	11	205	633	136	1,914	2,384
Slaughtering and meat packing.	1919	11	1,576	3,801	1,895	38,029	44,950
	1914	11	994	2,213	621	13,663	15,546
Tobacco, cigars	1919	195	833	35	785	1,305	2,931
	1914	232	904	20	506	704	1,904
Trunks and valises	1919	7	339	333	273	884	1,679
	1914	8	418	283	190	592	1,152
	1909	10	701	411	304	826	1,628
All other industries	1919	404	23,517	48,475	26,822	100,055	160,978
	1914	307	15,872	34,717	9,331	26,130	49,732
	1909	849	29,415	41,642	13,990	61,444	95,052
RACINE. All industries.[5]	1919	230	15,812	29,419	21,729	58,602	120,027
	1914	189	10,079	21,292	6,765	20,262	43,632
	1909	142	8,381	12,905	4,562	11,512	24,673

[1] Includes "automobile repairing"; "engines, steam, gas, and water"; "gas and water meters"; "hardware"; "iron and steel, tempering and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills."

[2] Includes "boxes, wooden packing, except cigar boxes."

[3] Includes "perfumery and cosmetics."

[4] Includes "bookbinding and blank-book making" and "lithographing."

[5] Comparative statistics by industries for 1914 and 1909 not available.

TABLE 35.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands of dollars.		
CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.							
APPLETON	1919	96	2,691	15,903	2,724	9,224	17,167
	1914	107	2,144	15,633	1,231	4,760	7,558
	1909	97	2,125	14,295	1,088	4,257	6,734
ASHLAND	1919	44	1,080	5,263	1,326	2,735	5,004
	1914	37	797	4,835	510	1,077	1,827
	1909	38	1,116	4,912	611	1,486	2,748
BELOIT	1919	59	4,623	8,133	5,914	9,455	21,105
	1914	50	3,527	6,861	2,346	3,013	6,928
	1909	51	2,986	4,992	1,840	2,439	5,886
EAU CLAIRE	1919	96	3,301	17,574	2,952	8,561	15,792
	1914	94	2,315	16,356	1,246	4,208	6,774
	1909	75	2,524	13,695	1,198	2,974	5,855
FOND DU LAC	1919	104	3,239	6,368	3,154	13,731	22,338
	1914	100	1,925	7,346	1,000	4,619	6,761
	1909	97	2,707	4,393	1,297	5,074	8,227
GREEN BAY	1919	145	4,798	12,475	4,907	13,813	28,188
	1914	104	2,724	8,809	1,465	4,060	6,798
	1909	102	2,579	5,637	1,107	3,893	6,235
JANESVILLE	1919	85	2,803	4,929	2,615	10,564	16,023
	1914	71	1,495	3,568	865	3,066	5,659
	1909	78	1,451	3,358	676	2,877	5,156
KENOSHA	1919	84	13,045	35,319	18,559	61,399	103,726
	1914	75	7,155	20,736	4,653	19,267	28,341
	1909	62	6,449	14,484	3,838	14,773	23,182
LA CROSSE	1919	151	4,503	10,788	3,877	14,239	24,936
	1914	167	3,340	9,869	1,879	7,814	14,739
	1909	151	3,329	6,956	1,539	7,797	14,103
MADISON	1919	147	3,189	8,474	3,474	7,662	16,823
	1914	122	2,084	2,933	1,346	2,795	6,207
	1909	116	1,792	2,551	1,059	2,337	5,467
MANITOWOC	1919	101	4,078	8,837	5,241	15,103	27,762
	1914	77	2,012	5,079	1,046	5,358	8,461
	1909	80	1,525	4,371	767	3,963	5,939
MARINETTE	1919	56	2,648	9,019	2,250	6,674	11,028
	1914	51	2,112	6,320	1,085	2,345	4,674
	1909	43	1,491	6,470	701	1,703	3,309
OSHKOSH	1919	169	6,190	15,770	5,214	13,687	27,572
	1914	157	5,782	13,648	2,804	6,807	13,890
	1909	159	5,778	10,890	2,570	7,081	14,739
SHEBOYGAN	1919	160	6,467	11,853	5,851	16,713	31,497
	1914	132	7,152	13,785	3,370	9,162	17,509
	1909	109	5,988	8,717	2,339	6,689	11,299
SUPERIOR	1919	94	6,162	11,755	9,629	27,314	44,043
	1914	111	2,121	7,678	1,382	8,446	11,663
	1909	99	1,847	6,536	1,087	4,272	6,574
WAUSAU	1919	83	2,320	8,040	2,201	8,920	13,395
	1914	85	2,492	7,408	1,354	4,530	7,325
	1909	67	2,092	6,786	990	3,325	6,287

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

	Industry and city.	Number of establishments	Persons engaged in the industry. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	Wage earners dec. 15, or nearest representative day. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.															
1	All industries	10,393	317,899	7,951	13,735	20,988	11,276	263,949	De 284,119	My 250,122	(2)	(2)	(2)	(2)	(2)	Dollars. 1,361,729,196
2	Agricultural implements	34	7,341	21	319	1,599	165	5,237	Mh 5,681	Oc 4,365	5,582	5,564	6	12	.....	54,956,330
3	Aluminum manufactures	13	2,624	5	110	184	178	2,147	.....	.....	2,558	1,842	520	121	75	8,170,283
4	Ware (mostly household)	7	2,113	.....	89	176	171	1,677	De 2,049	Se 1,374	2,049	1,334	519	121	75	7,014,532
5	All other	6	511	5	21	8	7	470	Ja 4 557	Ap 441	509	508	1	.....	.....	1,155,751
6	Artificial stone products	129	492	133	34	8	4	313	Au 424	Ja 143	429	428	1	.....	.....	1,225,164
7	Automobile bodies and parts	80	5,580	48	211	454	189	4,678	No 5,523	Fe 3,821	5,454	5,208	235	8	3	15,870,932
8	Automobiles	15	10,773	6	349	1,004	507	8,907	Oc 9,307	Fe 7,914	9,155	8,839	315	1	.....	46,883,931
9	Automobile repairing	673	2,844	851	95	44	116	1,738	Au 1,909	Ja 1,485	1,821	1,784	22	15	.....	6,007,889
10	Awnings, tents, and sails	21	147	19	13	7	10	98	Je 129	Ja 65	85	43	41	1	.....	336,161
11	Baskets, and rattan and willow ware	8	239	5	8	15	3	208	De 229	Ap 198	229	141	55	6	27	236,752
12	Bookbinding and blank-book making	32	651	23	25	83	40	480	Oc 536	Ap 436	526	195	244	34	53	857,386
13	Boot and shoe findings	9	264	6	10	6	4	238	De 257	Ja 211	258	134	74	20	30	947,730
14	Boots and shoes, not including rubber boots and shoes.	62	8,827	19	303	530	377	7,598	No 8,146	Mh 7,105	8,194	4,405	3,076	435	278	27,052,612
15	Boxes, cigar	5	129	5	6	2	4	112	No 126	Ap 97	125	46	54	11	14	352,479
16	Boxes, paper and other, not elsewhere specified.	24	1,872	6	106	68	56	1,636	.....	.....	1,890	673	903	109	205	3,808,348
17	Set-up paper boxes	19	1,613	5	89	57	47	1,415	De 1,636	Ja 1,092	1,640	521	812	103	204	2,681,749
18	All other	5	259	1	17	11	9	221	No 281	Ja 154	250	152	91	6	1	1,126,599
19	Boxes, wooden packing, except cigar boxes.	66	2,873	36	136	49	47	2,605	Au 2,961	Ap 2,304	2,762	2,392	324	31	15	6,757,188
20	Brass and bronze products	36	3,091	16	87	145	65	2,778	Oc 3,016	Mh 2,502	2,931	2,807	111	13	.....	10,722,111
21	Bread and other bakery products	742	3,837	802	115	175	199	2,546	De 2,815	Fe 2,354	2,958	1,871	858	222	7	8,652,256
22	Brick and tile, terra-cotta, and fire-clay products.	50	512	54	32	6	6	414	.....	.....	661	651	1	9	.....	1,804,890
23	Building brick	39	435	36	29	5	4	361	Je 649	Fe 81	575	565	1	9	.....	1,451,652
24	Fire brick, sewer pipe, draintile, and terra-cotta products.	11	77	18	3	1	2	53	Au 98	Ja 9	86	86	.....	.....	.....	353,238
25	Brooms, from broom corn	25	175	30	8	11	5	121	No 150	Fe 4 101	150	133	11	5	1	311,725
26	Brushes	12	185	5	16	7	8	149	Se 154	Ja 142	151	115	29	7	.....	425,462
27	Butter	498	1,836	185	158	83	93	1,317	Jy 1,433	Fe 1,216	1,305	1,251	51	3	.....	19,011,209
28	Canning and preserving, fish	9	45	8	5	3	3	26	Ja 35	Oc 16	39	36	2	1	.....	150,936
29	Canning and preserving, fruits and vegetables.	103	3,258	5	417	46	53	2,737	.....	.....	7,140	4,516	2,489	58	77	15,739,718
30	Canned vegetables	99	3,156	5	409	45	48	2,649	Jy 10,756	Mh 720	7,057	4,480	2,442	58	77	15,440,640
31	All other	4	102	.....	8	1	5	88	Jy 220	Mh 16	83	36	47	.....	.....	299,078
32	Carpets, rag	16	91	17	5	7	2	60	My 4 67	Ja 50	64	30	33	.....	1	43,423
33	Carriage and wagon materials	6	58	10	3	1	.....	44	My 60	Oc 4 24	55	55	.....	.....	.....	81,471
34	Carriages and sleds, children's	4	486	1	19	4	10	452	Mh 504	Jy 360	499	422	17	58	2	954,206
35	Carriages and wagons, including repairs.	118	1,777	142	82	75	24	1,454	.....	.....	1,500	1,470	14	7	9	7,406,366
36	Carriages and wagons	85	1,712	104	79	75	24	1,430	Ja 1,536	My 1,326	1,474	1,444	14	7	9	7,246,967
37	Repair work only	33	65	38	3	.....	.....	24	Oc 27	Ja 22	26	26	.....	.....	.....	159,399
38	Cars and general shop construction and repairs by electric-railroad companies.	17	644	.....	24	22	19	579	Fe 631	Jy 479	587	566	21	.....	.....	2,061,466
39	Cars and general shop construction and repairs by steam-railroad companies.	58	13,163	.....	408	190	74	12,491	Jy 12,827	Oc 12,049	12,094	11,998	96	.....	.....	21,868,856
40	Cheese	2,323	3,608	1,555	107	26	8	1,912	Je 2,328	Ja 1,333	2,164	2,099	47	18	.....	12,566,530
41	Chemicals	30	317	19	42	49	20	187	Ja 219	Jy 169	204	191	12	1	.....	2,139,671
42	Cleansing and polishing preparations	14	265	14	19	40	72	120	Se 138	Fe 98	135	94	40	1	.....	961,231
43	Clothing, horse	5	248	4	20	34	7	183	Au 194	Jy 177	187	68	108	2	9	884,018
44	Clothing, men's	59	4,055	44	147	333	145	3,386	.....	.....	3,922	906	2,721	89	206	11,286,601
45	Regular factory products	43	3,741	24	141	332	144	3,100	.....	.....	3,570	841	2,443	88	198	11,171,305
46	Men's and youths'	20	2,629	15	86	234	109	2,185	De 2,513	Mh 1,895	2,498	688	1,572	71	167	8,170,001
47	All other	23	1,112	9	55	98	35	915	De 1,097	Fe 724	1,072	153	871	17	31	3,001,304
48	Contract work	16	314	20	6	1	1	286	De 624	Ja 300	352	65	278	1	8	115,296
49	Clothing, women's	29	1,011	24	63	44	36	844	.....	.....	882	92	769	2	19	4,215,143
50	Suits, skirts, and cloaks	5	151	6	11	14	5	115	Au 135	No 98	119	45	71	2	1	297,137
51	Shirt waists and dresses, except house dresses.	6	257	5	13	7	10	222	My 246	Ja 197	219	13	200	.....	6	3,000,418
52	Undergarments and petticoats, wrappers and house dresses.	5	303	5	11	5	9	273	Fe 291	Se 4 257	267	15	249	.....	3	250,641
53	All other	13	300	8	28	18	12	234	No 325	Ja 171	277	19	249	.....	9	666,947
54	Coal-tar products	5	1,064	.....	44	165	28	827	De 1,399	Fe 408	1,399	1,399	.....	.....	.....	5,747,053
55	Coffee, roasting and grinding	12	194	3	12	6	17	156	De 172	Ja 148	172	89	77	5	1	2,264,914
56	Coffins, burial cases, and undertakers' goods.	8	602	1	30	53	15	503	Ap 537	Ja 477	512	394	110	4	4	1,190,838
57	Condensed milk	51	3,331	5	237	182	163	2,744	Je 3,181	Ja 2,477	2,706	2,305	397	3	1	25,787,449
58	Confectionery and ice cream	150	4,943	126	196	313	185	4,123	.....	.....	4,625	1,431	2,350	206	638	12,973,196
59	Confectionery	80	4,388	62	147	289	154	3,736	No 4,362	Je 3,309	4,249	1,098	2,308	205	638	9,986,849
60	Ice cream	70	555	64	49	24	31	387	Jy 571	Ja 262	376	333	42	1	.....	2,986,347
61	Cooperage	20	304	9	21	3	5	266	.....	.....	324	314	2	8	.....	916,059
62	Hogsheads and barrels	14	246	4	16	2	4	220	Je 277	De 118	280	270	2	8	.....	787,554
63	All other	6	58	5	5	1	1	46	Ap 56	De 32	44	44	.....	.....	.....	128,505

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
[2] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.										POWER.							
Salaries and wages.				Rent and taxes.		For materials.				Primary horsepower.							
											Owned.						
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufacture.	Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	Electric horsepower generated in establishments reporting.	
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
Dollars. 44,835,394	Dollars. 42,702,348	Dollars. 290,440,561	Dollars. 3,688,230	Dollars. 3,134,264	Dollars. 80,904,391	Dollars. 1,084,868,069	Dollars. 42,406,892	Dollars. 1,846,984,307	Dollars. 719,709,346	878,682	324,710	72,814	16,706	180,620	213,832	263,714	1
1,005,179	2,564,729	7,582,321	70	45,928	1,285,284	17,990,671	494,920	43,623,368	25,137,777	10,673	5,953	2,375	163	.....	2,182	5,903	2
299,028	396,456	2,071,575	.....	3,906	1,425,075	7,962,282	194,724	14,173,766	6,016,760	4,867	2,125	550	.....	.....	2,192	508	3
219,140	381,640	1,497,385	.....	2,496	1,247,434	5,409,008	110,935	10,359,033	4,839,090	4,232	2,125	550	.....	.....	1,557	508	4
79,888	14,816	574,190	.....	1,410	177,641	2,553,274	83,789	3,814,733	1,177,670	635	.....	.....	.....	.....	635	.....	5
68,187	9,267	373,808	1,869	7,588	8,460	540,349	24,797	1,377,333	812,187	1,083	64	.....	249	.....	770	.....	6
714,436	811,725	6,376,699	7,528	82,757	920,608	13,071,212	346,696	24,350,512	10,932,604	8,028	685	.....	548	.....	6,795	2,535	7
1,708,090	1,391,040	13,257,349	1,762	8,190	6,324,586	61,074,320	683,930	95,030,129	33,271,879	14,864	5,025	.....	11	.....	9,828	1,663	8
148,624	113,553	2,053,358	16,353	183,358	105,706	2,782,589	158,677	6,864,739	3,923,473	3,210	4	22	728	19	2,437	17	9
21,752	19,869	80,231	.....	7,728	5,006	313,746	4,005	536,118	218,367	44	.....	.....	.....	.....	44	.....	10
22,014	31,404	154,537	9,554	612	6,970	111,510	8,620	413,335	293,205	253	170	.....	.....	.....	83	15	11
50,099	128,282	355,309	21,948	26,612	15,660	602,248	9,269	1,406,875	795,358	189	.....	.....	.....	.....	189	.....	12
22,986	9,796	187,114	.....	3,912	17,525	954,143	14,065	1,324,961	356,753	293	220	.....	.....	.....	73	200	13
963,009	1,874,094	6,632,062	.....	90,448	1,276,678	27,498,934	203,568	44,373,938	16,671,436	4,653	2,350	.....	29	11	2,263	1,607	14
13,800	4,763	67,840	500,000	.....	15,529	232,753	4,151	386,520	149,616	238	170	.....	.....	.....	68	45	15
242,530	144,686	1,174,184	1,105	58,154	120,091	2,416,750	37,844	5,094,717	2,640,123	878	180	.....	26	.....	672	248	16
179,444	116,890	989,321	1,105	51,520	88,129	1,630,947	27,819	3,829,767	2,171,001	630	180	.....	26	.....	424	248	17
63,086	27,796	184,863	.....	6,634	31,962	785,803	10,025	1,264,950	469,122	248	.....	.....	.....	.....	248	.....	18
352,435	136,057	2,216,772	1,529	4,705	524,349	6,300,441	75,667	11,114,459	4,738,351	7,967	6,159	200	25	.....	1,583	1,344	19
377,984	299,297	3,747,872	.....	9,755	1,030,419	14,583,327	747,653	22,509,723	7,178,743	13,096	5,010	1,950	.....	.....	6,136	4,534	20
320,170	409,542	2,511,934	4,597	170,061	328,413	12,578,569	417,683	20,130,468	7,134,216	2,347	180	.....	68	.....	2,099	5	21
58,325	17,706	396,972	19,026	7,208	17,428	125,218	264,436	1,240,606	850,952	3,807	2,510	.....	79	40	1,178	85	22
52,758	15,996	343,048	19,026	6,508	14,369	108,348	231,708	1,098,594	758,538	2,861	1,605	.....	74	40	1,142	.....	23
5,567	1,710	53,924	.....	700	3,059	16,870	32,728	142,012	92,414	946	905	.....	5	.....	36	85	24
10,075	16,597	125,850	.....	4,537	1,821	376,683	3,405	624,253	244,165	74	.....	.....	2	.....	72	.....	25
36,943	18,038	136,138	.....	8,443	9,102	278,799	7,493	647,230	360,938	162	.....	.....	2	.....	160	.....	26
237,237	121,566	1,448,874	124,537	26,934	95,526	52,009,980	336,649	56,642,327	4,295,698	8,675	5,748	172	582	.....	2,173	712	27
6,961	4,673	28,226	.....	168	3,265	180,350	2,807	271,893	88,736	25	.....	.....	.....	.....	25	.....	28
827,541	119,948	2,121,209	33,121	95,138	1,083,115	9,925,137	191,035	17,036,038	6,919,866	11,758	8,737	275	748	.....	1,998	395	29
816,434	105,381	2,075,780	33,121	93,184	1,078,129	9,458,531	184,424	16,431,361	6,788,406	11,543	8,692	275	748	.....	1,828	395	30
11,107	14,567	45,429	.....	1,954	4,986	466,606	6,611	604,677	131,460	215	45	.....	.....	.....	170	.....	31
5,483	11,272	32,938	.....	2,269	918	14,333	2,848	98,498	81,317	56	.....	.....	5	.....	51	.....	32
1,058	783	36,253	.....	4,980	1,049	70,204	1,573	139,434	67,657	322	260	.....	10	50	2	10	33
81,772	16,415	400,290	.....	.....	16,723	714,167	6,966	1,355,558	634,425	565	560	.....	.....	.....	5	3	34
268,785	154,117	1,750,035	17,019	14,511	331,406	4,300,811	134,436	9,315,834	4,880,587	3,653	2,916	15	260	12	450	2,741	35
266,485	154,117	1,724,678	17,019	13,089	329,608	4,252,830	130,707	9,198,130	4,814,593	3,513	2,916	15	202	12	368	2,741	36
2,300	.....	25,357	.....	1,422	1,798	47,981	3,729	117,704	65,994	140	.....	.....	58	.....	82	.....	37
37,692	39,717	790,994	.....	1,100	43,223	1,640,372	65,448	2,622,802	916,982	1,956	.....	.....	.....	.....	1,956	.....	38
1,056,029	415,757	16,360,414	7,698	.....	35,234	18,074,699	882,484	36,790,522	17,833,339	6,959	5,257	10	.....	.....	1,692	7,845	39
38,957	14,240	2,445,629	20,290	67,780	85,195	83,480,320	869,478	91,462,678	7,112,880	13,180	8,882	1,475	2,521	13	289	23	40
80,214	96,029	204,095	1,170	5,147	60,002	1,063,995	65,378	2,074,299	944,926	1,376	140	.....	10	.....	1,226	4	41
62,044	139,138	125,435	736	3,728	15,129	876,268	6,920	2,163,882	1,280,674	420	10	.....	.....	.....	410	.....	42
49,054	90,413	159,462	559	4,675	77,284	1,205,567	17,251	1,907,816	684,998	383	150	.....	.....	.....	233	.....	43
679,439	689,343	2,595,143	148,372	83,571	647,587	10,268,259	59,554	17,050,701	6,722,888	967	315	20	.....	.....	632	305	44
670,395	688,782	2,360,891	143,868	85,790	646,091	10,251,377	52,854	16,739,594	6,435,363	915	315	20	.....	.....	580	305	45
458,634	523,000	1,817,607	130,967	60,692	438,854	7,044,835	35,200	11,678,670	4,598,635	615	315	.....	.....	.....	300	305	46
211,761	165,782	543,284	12,901	25,098	207,237	3,206,542	17,654	5,060,924	1,836,728	300	.....	20	.....	.....	280	.....	47
9,044	561	234,252	4,504	2,781	1,496	16,882	6,700	311,107	287,525	52	.....	.....	.....	.....	52	.....	48
151,546	139,982	427,379	5,661	28,112	31,889	2,000,741	13,989	3,221,426	1,206,696	205	.....	.....	.....	.....	205	.....	49
37,397	39,947	102,948	.....	9,210	10,676	383,359	2,341	698,197	312,497	18	.....	.....	.....	.....	18	.....	50
44,304	46,260	88,089	.....	7,396	9,348	361,324	2,918	729,901	365,659	28	.....	.....	.....	.....	28	.....	51
28,734	16,780	117,202	.....	5,250	2,902	578,214	3,470	819,424	237,740	110	.....	.....	.....	.....	110	.....	52
										49	.....	.....	.....	.....	49	.....	53
41,111	36,995	119,140	5,661	6,256	8,963	677,844	5,260	973,904	290,800	3,094	723	1,500	.....	.....	871	1,800	54
235,727	339,830	1,418,698	.....	5,419	85,058	2,042,606	203,575	4,983,214	2,737,033	566	75	.....	.....	.....	491	.....	55
40,680	23,491	167,392	.....	9,390	45,343	2,837,430	17,934	3,463,941	608,577	1,112	731	.....	12	.....	369	85	56
106,752	132,947	420,721	.....	840	179,477	1,036,350	25,714	2,663,135	1,601,071	10,389	7,277	863	.....	180	2,069	2,963	57
666,283	442,983	2,844,596	110,454	6,971	957,874	60,162,599	1,125,296	73,342,268	12,054,373	5,910	1,704	18	20	.....	4,168	692	58
726,603	1,034,975	2,743,738	12,709	102,884	1,322,619	14,192,597	226,961	24,388,617	9,969,059	2,789	1,495	.....	2	.....	1,292	692	59
558,412	977,978	2,313,668	7,799	84,520	1,198,724	11,306,105	124,592	19,909,890	8,479,193	3,121	209	18	18	.....	2,876	.....	60
168,191	56,997	430,070	4,910	18,364	123,895	2,886,492	102,369	4,478,727	1,489,866	1,020	780	.....	.....	.....	240	.....	61
55,784	6,587	288,108	.....	13,048	40,268	706,223	21,471	1,236,171	508,477	700	460	.....	.....	.....	240	.....	62
49,461	5,587	249,797	.....	12,842	38,792	637,232	14,518	1,090,433	438,683	320	320	.....	.....	.....	.....	.....	63
6,323	1,000	38,311	.....	206	1,476	68,991	6,953	145,738	69,794								

[1] No figures given for reasons stated under "Explanation of terms."
[2] Same number reported for one or more other months.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

	Industry and city.	Number of establishments	Persons engaged in the industry. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.		Wage earners. Number, 15th day of— Minimum month.		Wage earners dec. 15, or nearest representative day. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
																		Dollars.
1	Copper, tin, and sheet-iron work	199	1,926	191	164	164	105	1,302	No	1,574	Fe	1,037	1,496	1,469	24	3	.....	6,844,463
2	Cotton goods	6	211	3	11	22	4	171	No	184	Ap	152	186	85	95	.....	6	696,715
3	Cutlery and edge tools	6	225	.....	22	15	11	177	De	192	Jy	168	192	171	20	1	.....	380,144
4	Dairymen's, poultrymen's, and apiarists' supplies.	33	649	17	57	36	38	501	De	564	Au	459	569	487	75	2	5	2,428,411
5	Dental goods	7	74	5	6	3	6	54	Ap	59	Oc	51	53	44	8	1	.....	70,827
6	Druggists' preparations	6	46	2	8	2	1	33	(3)	33	(3)	33	33	26	7	.....	.....	225,810
7	Electrical machinery, apparatus, and supplies.	43	7,757	9	378	877	618	5,875	De	7,119	Je	4,915	7,117	5,042	1,909	135	31	21,861,429
8	Electroplating	14	155	10	10	.....	5	130	Au	154	Ja	104	151	130	8	13	.....	202,456
9	Engines, steam, gas, and water	36	21,497	3	772	1,971	969	17,782	De	20,693	Je	14,626	19,321	18,662	578	72	9	98,079,203
10	Engraving, steel and copper plate, including plate printing.	8	146	1	16	4	10	115	No	125	Mh	105	120	84	30	1	5	110,073
11	Envelopes	4	141	1	14	5	6	115	Se	123	Ja	106	118	37	79	.....	2	247,794
12	Fancy articles, not elsewhere specified	5	137	3	6	3	4	121	De	161	Ja	76	161	30	119	4	8	279,663
13	Flavoring extracts	9	62	5	13	7	2	35	Au	38	Se[4]	33	36	25	5	4	2	231,978
14	Flax and hemp, dressed	7	131	14	13	3	3	98	De	126	Jy	55	137	104	32	.....	1	605,792
15	Flour-mill and gristmill products	221	2,091	239	146	263	95	1,348	Oc	1,558	Fe	1,187	1,471	1,461	8	2	.....	16,945,838
16	Food preparations, not elsewhere specified.	42	1,293	35	78	140	119	921	Mh	1,008	Se	785	1,021	653	354	6	8	8,051,174
17	Foundry and machine-shop products.	429	22,374	247	1,218	1,487	787	18,635	.....		.....		20,766	20,050	567	144	5	74,087,341
18	Boiler shops	24	1,039	11	69	64	13	882	Ja	1,225	Je	690	952	942	10	.....	.....	3,094,947
19	Foundries	75	5,327	36	257	75	61	4,898	De	5,799	Ap	4,179	5,796	5,527	201	68	.....	11,052,062
20	Machine shops	290	13,523	189	744	1,237	627	10,726	De	11,694	Ap	10,129	11,707	11,297	336	70	4	52,648,685
21	Machine shop and foundry combined.	40	2,485	11	148	111	86	2,129	De	2,295	Je	1,969	2,311	2,284	20	6	1	7,291,647
22	Fur goods	34	375	29	20	29	17	280	De	312	Ap	258	310	112	185	3	10	1,590,262
23	Furniture	107	12,318	39	581	823	412	10,463	.....		.....		11,645	10,103	1,035	399	108	38,528,935
24	Wood, other than rattan and willow.	82	7,568	25	341	422	211	6,569	De	7,338	Ja	5,925	7,336	6,240	739	276	81	21,598,209
25	Rattan and willow	7	338	2	25	5	10	296	De	396	Ja	228	395	216	109	52	18	467,181
26	Metal furniture and store and office fixtures.	18	4,412	12	215	396	191	3,598	Se	4,252	Ja	3,110	3,914	3,647	187	71	9	16,463,545
27	Gas and electric fixtures	10	383	3	26	38	9	307	De	353	Ja	264	353	307	35	9	2	832,022
28	Gas, illuminating and heating	34	1,749	1	104	155	195	1,294	Jy	1,351	Fe	1,174	1,304	1,297	5	2	.....	32,882,014
29	Glass, cutting, staining, and ornamenting.	12	72	20	6	2	2	42	Oc	50	Ja	32	46	43	2	1	.....	82,490
30	Gloves and mittens, leather	28	1,915	22	101	38	26	1,728	Ja	1,972	My	1,616	1,781	576	1,023	58	124	3,765,616
31	Grease and tallow, not including lubricating greases.	13	74	8	10	4	1	51	My	57	Se	47	53	53	.....	.....	.....	370,273
32	Hair work	5	21	4	2	.....	.....	15	Au[4]	16	Ja[4]	14	16	1	15	.....	.....	13,766
33	Hardware	11	220	7	28	8	9	168	.....		.....		222	193	21	8	.....	856,475
34	Builders' hardware	5	69	6	10	6	2	45	De	51	Je	38	51	44	2	5	.....	457,066
35	All other	6	151	1	18	2	7	123	No	174	Ap	92	171	149	19	3	.....	399,409
36	Hats and caps, other than felt, straw, and wool.	8	82	7	6	6	1	62	My[4]	68	Fe	52	64	39	24	1	.....	139,512
37	House-furnishing goods, not elsewhere specified.	6	37	5	5	1	1	25	Se[4]	29	Fe[4]	22	27	10	17	.....	.....	64,842
38	Instruments, professional and scientific.	5	25	2	4	1	1	17	De	25	Fe	9	18	18	.....	.....	.....	69,948
39	Iron and steel, steel works and rolling mills.	12	4,337	.....	130	231	47	3,929	Ja	4,794	My	3,381	4,203	4,192	3	8	.....	27,205,644
40	Iron and steel, tempering and welding.	23	109	21	12	1	6	69	Oc	80	De	54	54	54	.....	.....	.....	277,144
41	Jewelry	13	130	13	5	20	11	81	No	87	Je	78	86	77	5	4	.....	124,198
42	Knit goods	72	9,934	25	305	465	403	8,736	De	9,308	Mh	8,278	9,530	2,015	6,249	392	874	25,672,325
43	Leather goods, not elsewhere specified.	6	20	8	.....	.....	.....	12	De	13	Ap	11	13	11	2	.....	.....	29,373
44	Leather, tanned, curried, and finished.	25	7,609	14	291	352	127	6,825	Mh	6,946	Je	6,676	6,814	6,212	565	37	.....	69,779,705
45	Lime	20	449	5	32	13	7	392	Je	437	Ja	292	373	372	1	.....	.....	2,417,188
46	Liquors, malt	77	3,493	38	221	351	68	2,815	Au	3,359	De	2,070	2,198	2,121	70	7	.....	77,109,283
47	Lithographing	12	529	1	37	30	23	438	Au	466	Ja	398	437	336	88	6	7	2,066,276
48	Looking-glass and picture frames	4	13	8	.....	.....	.....	5	(3)	5	(3)	5	6	4	.....	2	.....	28,802
49	Lumber and timber products	372	23,264	318	539	422	190	21,795	De	26,195	Jy	18,827	27,701	26,994	608	76	23	60,633,631
50	Lumber, planing-mill products, not including planing mills connected with sawmills.	167	5,226	121	288	278	117	4,422	No	4,907	Ja	3,838	4,898	4,630	213	54	1	19,826,912
51	Machine tools	24	2,760	6	158	152	92	2,352	No	2,722	Ap	1,886	2,703	2,628	73	2	.....	10,865,674
52	Malt	20	637	6	73	63	11	484	Je	591	De	383	480	475	2	3	.....	14,221,418
53	Marble and stone work	131	1,644	151	74	98	34	1,287	.....		.....		1,380	1,376	3	1	.....	4,268,105
54	Monuments and tombstones	97	647	123	37	77	22	388	Ap	411	Ja	321	400	397	2	1	.....	1,963,353
55	Other marble and stone work, except slate.	34	997	28	37	21	12	899	Se	1,052	Ja	653	980	979	1	.....	.....	2,304,752
56	Mats and matting, from cocoa fiber, grass, and coir.	5	723	.....	30	30	15	648	De	778	Jy	527	778	498	266	2	12	2,804,238
57	Mattresses and spring beds, not elsewhere specified.	25	687	23	48	29	18	569	Oc	630	Mh	492	599	446	98	53	2	2,181,477

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
[2] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Expenses. Salaries and wages. Officials.	Salaries and wages. Clerks, etc.	Salaries and wages. Wage earners.	For contract work.	Rent and taxes. Rent of factory.	Rent and taxes. Taxes, Federal, state, county, and local.	For materials. Principal materials.	For materials. Fuel and rent of power.	Value of products.	Value added by manufacture.	Power. Primary horsepower. Total.	Owned. Steam engines (not turbines).	Owned. Steam turbines.	Owned. Internal-combustion engines.	Owned. Water power.[1]	Rented.[2]	Electric horsepower generated in establishments reporting.	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
383,389	376,215	1,414,946	361	70,272	246,450	6,336,853	58,863	10,669,369	4,273,653	1,275	706	.....	10	.....	559	840	1
30,820	78,265	129,219	.....	1,320	40,726	865,643	18,911	1,269,504	384,950	1,073	300	325	30	300	118	206	2
53,418	16,414	176,843	.....	4,495	24,492	111,884	11,176	449,699	326,639	199	.....	.....	.....	.....	199	.....	3
200,320	83,752	519,103	344	6,931	44,647	1,624,297	36,776	3,065,323	1,404,250	1,264	175	100	26	10	953	.....	4
16,500	7,933	60,499	6	3,127	3,633	83,638	1,501	207,690	122,551	19	.....	.....	.....	.....	19	.....	5
26,900	3,600	35,969	.....	5,355	16,080	135,763	12,345	347,117	199,009	63	15	.....	.....	.....	48	1	6
1,236,513	1,605,244	6,028,437	1,896	68,875	990,926	9,001,101	366,961	23,636,473	14,268,411	7,470	2,110	.....	.....	.....	5,360	3,767	7
22,634	5,237	123,022	.....	72,151	2,217	64,466	11,258	288,834	213,110	324	.....	.....	.....	.....	324	.....	8
2,425,532	3,245,331	22,716,483	17,342	19,941	4,527,420	43,281,260	1,785,924	90,953,496	45,886,312	39,168	21,568	9,200	2,426	.....	5,974	48,161	9
46,945	12,902	116,686	13,014	8,000	17,444	78,867	3,428	370,353	288,058	36	.....	.....	.....	.....	36	.....	10
35,966	18,145	80,582	2,321	5,943	18,939	283,469	3,153	524,156	237,534	69	.....	.....	.....	.....	69	.....	11
26,290	5,740	69,368	.....	1,363	4,767	151,127	3,177	349,184	194,880	49	.....	.....	.....	.....	49	.....	12
16,657	5,649	26,410	.....	12,713	10,601	367,798	949	514,967	146,220	4	.....	.....	.....	.....	4	.....	13
23,883	3,578	101,137	.....	.....	6,876	240,468	5,762	425,293	179,063	815	440	110	.....	.....	265	.....	14
476,662	485,741	1,560,828	3,217	134,723	540,065	51,249,929	496,955	58,304,432	6,567,548	30,245	7,740	25	1,332	9,333	11,815	881	15
278,959	340,255	966,646	2,712	63,467	757,750	7,703,672	251,651	13,141,745	5,186,422	5,853	4,720	.....	5	6	1,122	1,267	16
4,411,154	2,534,720	21,841,914	172,970	130,619	5,075,338	33,735,469	2,371,965	86,692,644	50,585,210	37,948	15,076	1,755	2,198	592	18,327	15,848	17
236,165	110,745	1,115,288	.....	5,014	284,948	1,919,152	271,870	4,640,279	2,449,257	3,659	1,565	15	19	.....	2,060	735	18
860,848	186,992	6,747,131	80,224	17,029	864,507	5,271,785	952,605	17,655,243	11,430,853	9,226	2,404	.....	47	.....	6,775	1,078	19
2,829,761	2,023,472	11,480,044	87,883	104,817	3,567,728	23,365,245	941,350	55,589,202	31,282,607	21,300	10,282	1,740	1,763	592	6,923	13,008	20
484,380	213,511	2,499,451	4,863	3,759	358,155	3,179,287	206,140	8,807,920	5,422,493	3,763	825	.....	369	.....	2,569	1,027	21
68,217	115,752	274,514	3,375	23,840	49,995	1,137,701	11,617	1,991,587	842,269	137	.....	.....	.....	.....	137	.....	22
1,966,971	1,767,064	11,331,721	23,227	45,324	1,406,573	17,612,375	598,068	41,500,756	23,290,313	20,431	14,638	3,181	140	92	2,380	11,855	23
1,045,307	955,799	5,996,513	16,874	35,861	828,275	9,701,070	335,056	22,808,221	12,772,095	13,569	11,170	515	110	92	1,682	3,606	24
69,659	21,858	250,071	6,066	6,374	8,023	323,461	16,023	761,514	422,030	275	.....	.....	.....	.....	275	.....	25
852,005	789,407	5,085,137	287	3,089	570,275	7,587,844	246,989	1,793,102	10,096,188	6,587	3,468	2,666	30	.....	423	8,249	26
105,224	67,817	231,157	3,276	10,050	25,903	554,016	10,795	1,309,975	745,164	247	.....	.....	.....	.....	247	.....	27
222,386	322,362	1,556,142	52,214	.....	704,144	1,179,351	2,395,945	8,152,860	4,577,564	7,869	6,770	1,045	32	.....	22	373	28
6,945	2,488	49,557	810	5,945	697	79,834	1,955	189,373	107,584	42	.....	.....	6	.....	36	.....	29
282,303	61,785	1,205,175	41,835	30,065	330,555	4,235,724	31,026	6,772,808	2,506,058	609	275	.....	28	.....	306	40	30
20,354	4,817	64,297	10,781	1,925	25,938	416,507	19,829	710,441	274,105	381	314	15	.....	.....	52	15	31
2,062	.....	10,311	.....	2,850	115	12,606	739	37,553	24,208	1	.....	.....	.....	.....	1	.....	32
69,343	25,073	141,988	.....	2,976	15,898	521,683	13,454	918,352	383,215	418	100	.....	68	.....	250	.....	33
20,578	11,661	51,016	.....	471	5,992	176,072	6,935	380,048	197,041	148	100	.....	34	.....	14	.....	34
48,765	13,412	90,972	.....	2,505	9,906	345,611	6,519	538,304	186,174	270	.....	.....	34	.....	236	.....	35
18,469	6,532	70,809	.....	4,735	2,298	78,022	1,636	317,132	237,474	14	.....	.....	.....	.....	14	.....	36
7,098	2,045	20,847	.....	1,277	943	32,672	1,032	85,460	51,756	32	.....	.....	12	.....	20	.....	37
10,070	1,762	17,484	.....	1,834	803	27,797	994	50,381	21,590	31	.....	.....	.....	.....	31	.....	38
705,496	483,349	4,328,771	10,000	2,201	4,420,118	13,023,176	1,322,788	28,393,331	14,047,367	27,433	14,875	1,250	670	.....	10,638	6,910	39
21,533	4,847	98,910	1,139	4,976	8,296	48,626	19,870	304,248	235,752	222	50	.....	.....	.....	172	2	40
10,180	8,288	85,897	.....	5,107	933	92,246	1,587	247,420	153,587	36	.....	.....	.....	.....	36	1	41
1,147,098	1,811,463	5,776,628	77,646	116,249	1,964,839	23,988,227	228,641	40,777,704	16,560,836	5,413	3,920	.....	.....	.....	1,493	2,193	42
.....	.....	9,393	95	726	176	68,531	578	84,479	15,370	4	.....	.....	.....	.....	4	.....	43
1,297,005	902,357	8,011,138	49,338	9,676	3,794,719	68,589,370	916,658	94,762,230	25,256,202	24,808	11,762	11,650	.....	.....	1,396	18,149	44
54,382	19,396	358,643	3,600	2,115	20,155	151,834	264,840	1,130,092	713,418	2,731	1,135	15	846	75	660	8	45
757,156	730,473	3,268,371	1,727	18,154	7,657,931	10,681,806	801,000	35,829,684	24,346,878	23,012	17,580	242	87	.....	5,103	5,872	46
137,633	90,660	496,527	18,446	14,721	98,450	872,731	19,730	2,079,440	1,186,979	569	.....	.....	.....	.....	569	.....	47
.....	.....	5,134	143	2,204	256	19,057	324	43,683	24,302	5	.....	.....	4	.....	1	.....	48
1,716,841	814,933	19,659,221	1,070,817	19,691	2,482,715	21,024,596	367,300	57,221,434	35,829,538	70,967	62,556	3,005	843	998	3,565	6,675	49
806,219	579,918	4,420,192	26,721	20,097	473,701	11,098,124	216,397	20,546,990	9,232,469	15,957	11,360	251	412	278	3,656	4,730	50
711,431	499,472	2,836,033	182,924	12,255	1,044,683	2,456,188	142,270	9,414,820	6,816,362	4,325	2,950	.....	21	267	1,087	4,380	51
295,842	112,643	650,280	.....	.....	332,467	14,288,493	509,736	18,064,108	3,265,879	8,946	6,730	1,250	.....	100	866	6,532	52
252,576	184,919	1,429,667	11,892	17,300	57,741	1,583,689	120,815	4,726,440	3,021,936	5,118	1,881	40	197	.....	3,000	859	53
100,720	142,383	496,299	6,883	9,490	28,634	982,255	43,683	2,449,369	1,423,431	1,261	200	.....	87	.....	974	22	54
151,856	42,536	933,368	5,009	7,810	29,107	601,434	77,132	2,277,071	1,598,505	3,857	1,681	40	110	.....	2,026	837	55
123,367	70,726	446,913	.....	1,500	176,821	1,231,847	23,738	2,821,541	1,565,956	606	265	10	.....	.....	331	218	56
114,985	72,848	490,633	.....	17,060	41,110	1,571,194	24,005	3,008,094	1,412,895	714	465	.....	12	.....	237	292	57

[1] Same number reported throughout the year.
[2] Same number reported for one or more other months.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
																Dollars.
1	Millinery and lace goods, not elsewhere specified.	13	904	10	20	11	12	851	.....	.....	1,068	294	763	1	10	1,594,639
2	Trimmed hats and hat frames	7	846	5	19	11	10	801	Mh 1,035	Je 570	986	292	685	1	8	1,501,329
3	All other	6	58	5	1	.....	2	50	Fe 84	Jy [2] 30	82	2	78	.....	2	93,310
4	Mineral and soda waters	182	848	201	85	56	38	468	Jy 564	Ja 387	463	416	41	6	.....	10,872,564
5	Mirrors, framed and unframed, not elsewhere specified.	7	94	3	17	4	2	68	Au 76	Fe 57	72	72	.....	.....	.....	368,822
6	Models and patterns, not including paper patterns.	40	453	44	24	10	10	365	De 487	Ja 307	479	438	37	4	.....	531,368
7	Musical instruments and materials, not specified.	7	208	6	21	6	11	164	Oc 196	Mh 142	172	145	26	.....	1	371,911
8	Musical instruments, organs	4	88	3	12	2	3	68	No 85	Ja 45	80	68	12	.....	.....	379,841
9	Musical instruments, pianos	7	521	.....	27	18	28	448	De 477	Ja 387	477	432	32	13	.....	2,183,302
10	Paints	9	626	5	33	142	74	372	De 475	Fe 313	475	421	44	2	8	5,152,930
11	Paper and wood pulp	57	13,916	4	351	494	278	12,789	.....	.....	13,375	12,331	1,036	5	3	92,268,720
12	Paper exclusively	20	3,330	.....	100	80	62	3,088	De 3,402	Ap 2,664	3,402	2,695	703	1	3	19,752,974
13	Pulp exclusively	9	561	4	29	10	7	511	No 532	Ja 483	530	529	1	.....	.....	3,007,770
14	Paper and pulp	28	10,025	.....	222	404	209	9,190	De 9,468	My 8,910	9,443	9,107	332	4	.....	69,507,976
15	Paper goods, not elsewhere specified.	17	1,369	.....	85	84	94	1,106	De 1,295	Mh 939	1,178	761	384	12	21	4,834,333
16	Patent medicines and compounds	50	310	43	43	34	66	124	.....	.....	125	71	51	2	1	968,287
17	Patent and proprietary medicines	37	224	31	26	20	49	98	Mh 117	Au 84	94	44	48	1	1	783,126
18	Patent and proprietary compounds, not elsewhere specified.	13	86	12	17	14	17	26	Je 31	Ja 21	31	27	3	1	.....	185,161
19	Paving materials	33	541	17	45	26	3	450	Jy 603	Ja 231	562	561	.....	1	.....	2,611,883
20	Perfumery and cosmetics	5	143	4	10	15	39	75	No 87	Je 51	86	17	66	.....	3	386,749
21	Phonographs and graphophones	9	1,019	1	39	41	40	898	De 990	Ja 818	990	900	90	.....	.....	3,566,517
22	Photo-engraving	10	145	5	8	11	6	115	De 123	Fe 107	123	118	1	4	.....	225,593
23	Pickles and sauces	17	189	19	17	2	5	146	Se 248	Fe 75	148	95	53	.....	.....	452,379
24	Plumbers' supplies, not elsewhere specified.	9	709	1	42	26	25	615	De 716	Mh 543	719	652	45	20	2	2,647,659
25	Pocketbooks	6	296	1	12	16	9	258	De 317	Jy 232	317	110	153	25	29	536,600
26	Printing and publishing, book and job.	261	2,917	223	257	162	150	2,125	.....	.....	2,491	1,688	722	55	26	5,827,967
27	Job printing and book publishing and printing.	245	2,787	217	240	127	114	2,089	De 2,454	Ja 1,823	2,452	1,654	718	55	25	5,559,055
28	Book publishing without printing	9	80	5	10	32	32	1	(4) 2	(4) 2	2	2	.....	.....	.....	173,879
29	Linotype work and typesetting	7	50	1	7	3	4	35	No 37	Ap [3] 34	37	32	4	.....	1	95,033
30	Printing and publishing, newspapers and periodicals.	529	5,077	453	354	922	668	2,680	.....	.....	2,822	1,946	721	141	14	11,166,421
31	Printing and publishing	25	1,747	5	101	684	305	652	De 671	Mh 633	675	627	41	7	.....	4,027,913
32	Printing, publishing, and job printing.	438	3,128	426	204	207	284	2,007	De 2,082	Ja 1,949	2,104	1,306	654	130	14	6,888,935
33	Publishing without printing	66	202	22	49	31	79	21	De 42	Ap [3] 15	43	13	26	4	.....	249,573
34	Pumps, not including power pumps	6	465	.....	27	29	9	400	Oc 441	Fe 366	429	407	21	1	.....	1,611,877
35	Refrigerators	7	604	4	17	30	9	544	Fe 603	Au 483	581	531	31	19	.....	1,972,492
36	Rubber tires, tubes, and rubber goods, not elsewhere specified.	8	5,611	.....	76	579	399	4,557	No 4,818	Ja 4,302	4,809	4,189	585	20	15	25,011,541
37	Saddlery and harness	43	600	45	30	52	32	441	Oc 465	Ja 401	459	387	62	7	3	2,381,685
38	Sausage, not made in slaughtering and meat-packing establishments.	28	337	28	20	31	14	244	De 281	My 204	272	234	37	.....	1	1,092,792
39	Screws, machine	7	96	2	10	2	1	81	No 100	Ja 65	85	70	15	.....	.....	336,192
40	Shipbuilding, steel	7	7,105	1	79	295	72	6,658	Oc 7,473	De 5,498	5,498	5,496	2	.....	.....	11,620,463
41	Shipbuilding, wooden, including boat building.	28	1,338	23	44	47	27	1,197	.....	.....	1,069	1,069	.....	.....	.....	6,121,351
42	New vessels and repair work	9	1,235	5	34	47	23	1,126	My 1,467	De 793	984	984	.....	.....	.....	5,893,616
43	Small boats	19	103	18	10	.....	4	71	Jy 89	Ja 53	85	85	.....	.....	.....	227,735
44	Shirts	6	541	4	18	44	18	457	Ja 480	Je 437	474	50	424	.....	.....	1,933,542
45	Signs and advertising novelties	17	525	20	20	17	7	461	No 479	Fe 438	472	205	201	32	34	569,001
46	Slaughtering and meat packing	21	4,046	23	266	401	138	3,218	Ja 4,197	Se 2,093	2,801	2,293	494	12	2	21,646,835
47	Soap	11	1,390	4	33	490	172	691	Se 772	My 529	764	401	361	2	.....	7,704,943
48	Stamped and enameled ware, not elsewhere specified.	8	4,044	.....	102	257	173	3,512	De 4,048	My 3,213	4,044	3,503	441	54	46	16,328,329
49	Statuary and art goods	9	63	5	8	1	1	48	De 57	Mh 37	56	54	.....	2	.....	199,530
50	Steam fittings and steam and hot-water heating apparatus.	6	663	1	18	30	25	589	No 742	Ja 453	719	488	231	.....	.....	1,810,572
51	Stereotyping and electrotyping	4	57	2	10	2	1	42	Oc 50	Ja 28	47	46	1	.....	.....	77,737
52	Stoves and hot-air furnaces	10	1,105	6	42	151	48	858	De 1,052	Ja 746	1,036	1,018	14	4	.....	4,230,309
53	Structural ironwork, not made in steel works or rolling mills.	21	1,689	8	87	230	56	1,308	No 1,502	My 1,123	1,439	1,439	.....	.....	.....	6,502,051
54	Sugar, beet	4	393	.....	24	28	7	334	No 1,032	Fe 57	958	958	.....	.....	.....	3,734,008
55	Surgical appliances	8	29	5	2	.....	2	20	(4) 20	(4) 20	20	5	14	1	.....	63,102
56	Suspenders, garters, and elastic woven goods.	5	21	6	1	1	2	11	(4) 11	(4) 11	11	3	8	.....	.....	50,507
57	Tobacco, chewing and smoking, and snuff.	11	334	7	12	22	30	263	Au 315	Ja 214	278	121	157	.....	.....	2,997,541
58	Tobacco, cigars and cigarettes	541	2,376	580	50	39	11	1,696	De 1,840	Au 1,594	1,846	1,257	587	2	.....	2,704,401
59	Tools, not elsewhere specified	34	627	20	63	32	23	489	.....	.....	635	593	42	.....	.....	1,830,700
60	Machinists' tools	15	201	11	26	2	5	157	De 208	Fe 123	200	200	.....	.....	.....	390,801
61	All other	19	426	9	37	30	18	332	De 436	My 276	435	393	42	.....	.....	1,439,899
62	Toys and games	10	334	8	22	9	9	286	No 371	Ja 184	327	252	35	21	19	523,105
63	Trunks and valises	18	1,135	5	43	90	64	933	De 1,061	Fe 846	1,058	744	218	73	23	2,830,386
64	Upholstering materials, not elsewhere specified.	12	407	4	25	7	6	365	Mh 389	No 338	358	282	23	33	20	1,130,149

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
[2] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants)

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

EXPENSES.										POWER.							
Salaries and wages.				Rent and taxes.		For materials.				Primary horsepower.							
											Owned.						
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufacture.	Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	Electric horsepower generated in establishments reporting.	
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*								
70,422	40,142	699,081	1,559	12,894	223,905	1,570,137	26,442	3,352,886	1,756,307	242	210	.....	.....	.....	32	220	1
66,722	38,316	657,276	1,559	7,206	223,227	1,466,397	25,388	3,162,617	1,670,832	227	210	.....	.....	.....	17	220	2
3,700	1,826	41,805	.....	5,688	678	103,740	1,054	190,269	85,475	15	.....	.....	.....	.....	15	.....	3
156,509	113,248	453,010	97	18,204	206,124	2,034,883	63,051	4,903,581	2,805,647	1,047	358	58	119	1	511	26	4
45,185	5,172	87,252	.....	5,905	25,335	388,889	8,101	713,768	316,778	320	275	.....	.....	.....	45	15	5
80,119	42,031	482,344	1,620	14,312	6,488	170,144	12,223	1,076,873	894,506	350	.....	.....	4	.....	346	.....	6
45,051	15,290	152,911	.....	1,151	12,090	107,336	10,555	542,793	424,902	77	.....	.....	.....	.....	77	.....	7
21,850	240	81,091	.....	1,250	2,463	79,576	3,367	249,557	166,614	68	.....	.....	.....	.....	68	.....	8
81,209	73,303	438,023	1,640	3,239	45,008	1,456,583	27,538	2,669,704	1,185,583	582	350	.....	.....	.....	232	.....	9
149,066	333,786	415,286	.....	11,084	255,344	4,911,060	139,125	6,702,258	1,652,073	1,742	1,092	400	.....	.....	250	799	10
1,635,327	1,095,377	14,010,430	135,052	40,839	6,647,183	39,567,641	5,633,304	80,328,483	35,127,538	237,239	37,289	18,259	.....	166,514	15,177	53,525	11
520,335	227,869	3,335,991	15,391	2,527	1,768,151	14,156,285	1,289,783	23,518,551	8,072,483	33,747	15,945	3,585	.....	10,470	3,747	11,282	12
64,110	79,901	579,906	.....	24,897	406,336	1,367,423	193,776	3,098,269	1,537,070	9,407	670	650	.....	6,570	1,517	963	13
1,050,882	787,607	10,094,533	119,661	13,415	4,472,696	24,043,933	4,149,745	53,711,663	25,517,985	194,085	20,674	14,024	.....	149,474	9,913	41,280	14
248,518	226,693	1,129,666	9,977	16,016	381,898	5,334,862	146,249	8,222,054	2,740,943	2,787	1,320	.....	.....	.....	1,467	567	15
82,275	106,162	101,101	1,032	22,662	21,696	673,670	7,145	1,516,296	835,481	140	.....	.....	10	.....	130	.....	16
55,238	65,484	78,423	1,032	14,962	20,423	545,807	4,901	1,210,445	659,737	98	.....	.....	10	.....	88	.....	17
27,037	40,678	22,678	.....	7,700	1,273	127,863	2,244	305,851	175,744	42	.....	.....	.....	.....	42	.....	18
88,130	30,558	653,426	5,930	12,250	25,296	175,898	156,401	1,311,572	979,273	7,304	2,379	.....	152	150	4,623	145	19
47,471	52,414	35,383	.....	7,331	15,029	274,088	2,019	780,245	504,138	20	.....	.....	.....	.....	20	.....	20
138,598	127,473	939,276	.....	16,076	78,844	1,815,877	29,588	3,861,727	2,016,262	1,046	650	.....	.....	75	321	75	21
19,895	23,063	181,500	.....	9,645	2,173	67,470	3,403	467,688	396,815	76	.....	.....	.....	.....	76	.....	22
21,153	4,453	70,903	4,911	240	10,716	345,677	5,414	758,959	407,868	147	66	.....	37	.....	44	.....	23
140,314	53,004	702,882	5,755	4,535	63,530	1,192,668	83,311	2,443,638	1,167,659	1,379	250	.....	.....	.....	1,129	.....	24
39,449	37,817	159,094	703	2,957	30,671	352,737	4,082	725,448	368,629	29	.....	.....	.....	.....	29	.....	25
619,927	332,252	2,026,103	98,090	145,806	94,279	3,048,621	87,170	7,970,336	4,834,545	2,943	90	.....	77	.....	2,776	1	26
587,614	259,258	1,972,420	41,227	136,904	92,866	2,976,556	84,633	7,607,009	4,545,820	2,924	90	.....	77	.....	2,757	1	27
15,470	69,536	2,000	56,863	5,113	285	54,108	822	221,677	166,747	1	.....	.....	.....	.....	1	.....	28
16,843	3,458	51,683	.....	3,789	1,128	17,957	1,715	141,650	121,978	18	.....	.....	.....	.....	18	.....	29
909,289	1,409,234	2,937,217	397,157	145,846	343,776	4,202,897	164,782	14,639,902	10,272,223	3,705	13	.....	335	19	3,338	30	30
372,926	918,807	1,003,846	37,407	24,715	226,433	1,939,912	42,880	6,396,494	4,413,702	1,174	.....	.....	2	.....	1,172	.....	31
381,692	406,816	1,890,050	37,750	108,182	107,553	2,119,809	121,725	7,142,724	4,901,190	2,529	13	.....	333	19	2,164	30	32
154,671	83,611	43,321	322,000	12,949	9,790	143,176	177	1,100,684	957,331	2	.....	.....	.....	.....	2	.....	33
81,615	38,410	399,733	1,729	6,858	30,237	773,131	22,390	1,525,999	730,478	491	200	.....	.....	.....	291	271	34
80,875	82,948	453,550	1,000	480	85,195	961,962	18,663	2,021,500	1,040,875	664	325	.....	.....	.....	339	15	35
333,438	1,148,071	5,672,011	25,971	1,710	1,101,569	19,538,870	380,887	36,368,685	16,448,928	12,567	2,895	6,885	.....	.....	2,787	1,800	36
157,216	117,292	500,739	104	27,517	677,417	3,278,379	13,362	5,143,239	1,851,498	247	.....	.....	7	.....	240	.....	37
89,798	43,613	288,078	.....	10,287	38,639	3,000,341	40,200	4,024,463	983,922	887	436	.....	30	.....	421	85	38
40,580	4,692	99,513	384	3,786	4,397	191,347	10,954	356,349	154,048	272	.....	.....	25	.....	247	.....	39
565,603	584,975	11,085,302	15,000	20,491	2,226,145	17,102,303	333,627	36,628,337	19,192,407	9,345	3,266	.....	.....	.....	6,079	474	40
243,068	92,449	1,355,373	.....	12,453	22,834	2,887,907	42,886	7,535,409	4,604,616	1,246	525	.....	70	.....	651	.....	41
224,368	89,670	1,277,212	.....	11,823	16,371	2,783,696	37,970	7,293,790	4,472,124	1,011	480	.....	30	.....	501	.....	42
18,700	2,779	78,161	.....	630	6,463	104,211	4,916	241,619	132,492	235	45	.....	40	.....	150	.....	43
53,689	149,556	352,346	.....	6,380	117,898	1,857,700	9,573	2,879,920	1,012,647	298	175	.....	.....	.....	123	.....	44
69,594	25,426	308,299	17,020	15,878	21,911	481,594	9,845	1,140,121	648,682	148	.....	.....	.....	.....	148	.....	45
681,313	557,091	3,705,908	.....	32,273	2,197,267	89,401,380	502,559	102,182,171	12,278,232	7,712	5,324	1,015	.....	.....	1,373	1,130	46
168,052	948,569	607,124	.....	2,896	160,199	5,663,795	56,493	8,908,906	3,188,618	729	690	.....	.....	.....	39	758	47
500,439	546,722	4,175,441	.....	.....	2,169,248	7,813,141	422,648	19,599,822	11,364,033	6,958	5,990	.....	.....	.....	968	4,296	48
15,259	899	55,263	10,638	4,394	2,859	25,024	1,177	152,294	126,093	11	.....	.....	.....	.....	11	.....	49
95,285	86,125	481,886	513	2,865	124,140	508,341	19,812	1,632,512	1,104,359	356	.....	.....	10	.....	346	.....	50
27,500	2,530	52,378	.....	7,101	1,137	39,494	4,883	182,892	138,515	207	.....	.....	.....	.....	207	.....	51
214,121	259,805	1,075,496	.....	413	68,676	2,175,723	90,281	4,128,742	1,862,738	1,876	959	.....	.....	.....	917	913	52
340,873	430,600	1,825,437	41,763	3,476	374,287	4,428,649	116,882	8,546,874	4,001,343	3,681	1,720	.....	20	.....	1,941	1,331	53
71,612	47,388	325,555	.....	.....	26,605	1,928,191	130,138	3,245,611	1,187,282	3,565	3,380	10	4	.....	171	1,255	54
3,000	1,400	13,341	.....	3,421	538	41,053	1,547	80,007	37,407	7	.....	.....	.....	.....	7	5	55
1,250	5,392	7,851	.....	1,488	237	87,237	434	124,265	36,594	5	.....	.....	.....	.....	5	.....	56
62,700	89,163	207,793	.....	15,933	1,194,240	1,961,840	10,868	4,119,013	2,146,305	320	250	.....	2	.....	68	.....	57
81,369	78,562	1,484,013	1,248	60,285	606,068	2,564,196	22,193	5,888,576	3,302,187	562	10	.....	4	.....	548	1	58
136,561	42,651	571,588	4,769	16,263	37,420	466,633	36,664	1,702,443	1,199,146	1,189	.....	.....	16	.....	1,173	.....	59
45,998	6,187	205,765	4,769	7,626	5,790	51,720	6,861	399,301	340,720	189	.....	.....	.....	.....	189	.....	60
90,563	36,464	365,823	.....	8,637	31,630	414,913	29,803	1,303,142	858,426	1,000	.....	.....	16	.....	984	.....	61
47,579	20,687	194,114	3,465	1,960	18,104	320,914	11,334	725,542	393,294	370	125	40	.....	.....	205	50	62
199,979	346,710	738,385	6,637	5,950	170,946	2,351,415	36,294	4,724,196	2,336,487	1,269	995	.....	.....	.....	274	616	63
62,751	10,995	336,849	.....	449	53,418	895,390	23,086	1,624,259	705,783	1,816	1,653	.....	20	.....	143	52	64

[1] Same number reported for one or more other months.
[2] Same number reported throughout the year.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.					Total.	16 and over.		Under 16.		
						Male.	Female.	Average number.	Number, 15th day of—					Male.	Female.	Male.	Female.	
									Maximum month.		Minimum month.							
	THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
1	Washing machines and clothes wringers.	5	95	.....	9	12	6	68	De	93	Ja	56	101	101	.....	.....	.....	*Dollars.* 264,695
2	Window shades and fixtures	5	174	3	16	11	14	130	Je	167	Se	107	158	73	64	10	11	580,906
3	Wirework, not elsewhere specified	13	317	6	20	15	7	269	Oc	284	De	250	281	212	55	8	6	1,242,745
4	Wood, turned and carved	14	123	17	12	1	2	91	Fe	107	Se	74	101	92	8	1	.....	226,892
5	Wooden goods, not elsewhere specified.	9	890	1	29	18	10	832	Ja	847	Jy	808	839	747	83	9	.....	3,127,522
6	Woolen and worsted goods	24	1,187	17	56	24	20	1,070	De	1,203	Fe	802	1,207	550	608	17	32	4,583,505
7	All other industries*	234	17,299	101	832	1,191	712	14,463	.....	.....	.....	.....	.....	.....	.....	.....	.....	103,999,663

*All other industries embrace—

Artificial limbs	3
Babbitt metal	1
Bags, other than paper, not including bags made in textile mills	5
Bags, paper, exclusive of those made in paper mills	4
Baking powders and yeast	2
Belting and hose, woven	1
Belting, leather	3
Billiard tables and accessories	2
Blacking, stains, and dressings	5
Bluing	2
Boots and shoes, rubber	1
Buttons	3
Carpets and rugs, other than rag	1
Cars, steam-railroad, not including operations of railroad companies	2
Cash registers and calculating machines.	1
Chewing gum	1
Chocolate and cocoa products	1
Clocks	1
Clothing, men's, buttonholes	1
Coke, not including gas-house coke	2
Cordage and twine	3
Cordials and flavoring sirups	1
Cork, cutting	1
Corsets	1
Drug grinding	1
Dyeing and finishing textiles, exclusive of that done in textile mills	2
Dyestuffs and extracts—natural	1
Engraving and diesinking	3
Explosives	2
Felt goods	2
Files	2
Fire extinguishers, chemical	1
Flags and banners	2
Foundry supplies	1
Fuel, manufactured, briquetted	2
Furnishing goods, men's neckwear	2
Furs, dressed	4
Galvanizing	3
Gas and water meters	1
Glass	2
Glue, other than fish	2
Gold and silver, reducing and refining, not from the ore	2
Hammocks	1
Hand stamps	5
Hardware, saddlery	2
Hats, fur-felt	1
Hats, straw	3
Horseshoes, not made in steel works or rolling mills	1
Ice, manufactured	1
Ink, printing	1
Ink, writing	1
Iron and steel, blast furnaces	3
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	3
Iron and steel forgings, not made in steel works or rolling mills	3
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills	1
Jewelry and instrument cases	1
Labels and tags	1
Lamps and reflectors	3

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.							
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.							Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				Rented.[1]		
											Steam engines (not turbines.)	Steam turbines.	Internal-combustion engines.	Water power.[1]			
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
22,776	39,300	65,442	.....	910	4,506	364,870	4,698	615,737	246,169	156	.....	.....	.....	.....	156	.....	1
39,701	45,431	80,265	.....	3,042	12,551	287,406	8,407	581,077	285,264	215	100	.....	.....	.....	115	.....	2
90,170	33,140	299,900	22	312	121,068	782,257	14,259	1,826,438	1,029,922	580	435	.....	.....	.....	145	39	3
16,324	3,920	81,905	.....	3,581	2,932	131,487	5,951	286,965	149,527	358	275	.....	15	.....	68	.....	4
94,025	50,254	757,455	.....	596	119,794	1,210,389	30,013	3,064,066	1,823,664	2,608	2,405	.....	3	.....	200	20	5
253,860	90,221	827,132	771	7,350	323,451	3,264,610	73,926	5,495,363	2,156,827	2,985	1,445	.....	45	1,194	301	488	6
2,758,627	2,532,032	16,573,118	31,817	151,409	4,232,372	51,719,107	11,809,196	106,527,967	42,999,664	57,470	31,244	3,233	198	291	22,504	18,350	7

Lasts..... 1
Lead, bar, pipe, and sheet..... 2
Lubricating greases..... 1
Matches..... 1
Minerals and earths, ground or otherwise treated..... 3
Motorcycles, bicycles, and parts..... 5
Mucilage, paste, and other adhesives, not elsewhere specified..... 2
Musical instruments, piano and organ materials..... 2
Oil, linseed..... 2
Oil, not elsewhere specified..... 4
Oleomargarine and other butter substitutes..... 3
Optical goods..... 3
Ordnance and accessories..... 3
Pens, fountain and stylographic..... 2
Photographic apparatus..... 1
Photographic materials..... 2
Pipes, tobacco..... 1
Pottery, earthen and stone ware..... 1
Printing materials..... 1
Pulp goods..... 1
Pumps, steam and other power..... 2
Regalia, and society badges and emblems..... 2
Roofing materials..... 6
Safes..... 2
Sand and emery paper and cloth..... 1
Sand-lime brick..... 1
Saws..... 1
Scales and balances..... 2
Sewing machine attachments..... 1
Show cases..... 3
Smelting, lead..... 1
Smelting and refining, not from the ore..... 1
Sporting and athletic goods..... 4
Springs, steel, automobile, not made in steel works or rolling mills..... 3
Stationery goods, not elsewhere specified..... 4
Steam packing..... 5
Stoves, gas and oil..... 4
Textile machinery and parts..... 1
Tin plate and terneplate..... 1
Tinware, not elsewhere specified..... 4
Typewriters and parts..... 2
Umbrellas and canes..... 3
Varnishes..... 1
Vault lights and ventilators..... 2
Vinegar..... 2
Wall plaster and composition flooring 2
Waste, cotton..... 3
Windmills..... 5
Window and door screens and weather strips..... 1
Wire..... 3
Wood distillation..... 3
Wool scouring..... 1
Wool shoddy..... 2

[1] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.															
1	**MILWAUKEE**—All industries	2,093	101,467	1,554	4,560	7,189	3,942	84,222	De 90,159	Mh 80,736	90,573	67,563	19,111	1,806	2,093	*Dollars.* 421,619,463
2	Artificial stone products	17	105	12	11	1	2	79	Jy 118	Ja 35	107	106	1	.....	.....	320,106
3	Automobile bodies and parts	37	1,607	24	87	61	46	1,389	De 1,642	Fe 1,176	1,626	1,569	56	1	.....	4,745,769
4	Automobile repairing	104	694	100	27	5	29	533	De 558	Ja 479	550	540	5	5	.....	1,330,966
5	Awnings, tents, and sails	8	76	7	8	6	4	51	Je 68	Ja [3] 37	47	24	23	.....	.....	199,655
6	Bookbinding and blank-book making	16	594	10	22	82	38	442	Oc 488	Ap 405	479	174	218	34	53	721,431
7	Boots and shoes	26	5,744	9	180	373	265	4,917	No 5,212	Mh 4,646	5,215	2,794	1,841	368	212	19,084,377
8	Boxes, paper and other, not elsewhere specified.	9	1,369	1	73	60	42	1,193	De 1,406	Ja 887	1,378	530	568	105	175	2,916,639
9	Boxes, wooden packing, except cigar boxes.	8	837	3	53	31	25	725	Au 846	Ap 594	768	629	101	25	13	2,715,819
10	Brass and bronze products	22	718	8	46	37	13	614	No 638	Ja 593	633	547	73	13	.....	2,225,587
11	Bread and other bakery products	329	2,089	343	52	132	84	1,478	No 1,663	Fe 1,341	1,585	1,041	536	6	2	5,079,571
12	Brooms, from broom corn	8	58	10	.....	.....	1	47	Ap [3] 49	De 43	46	43	3	.....	.....	59,154
13	Carpets, rag	6	28	7	2	1	1	17	Au [3] 18	Mh [3] 16	17	12	5	.....	.....	9,027
14	Carriages and wagons, including repairs.	6	32	8	.....	.....	.....	24	([4]) 24	([4]) 24	24	24	.....	.....	.....	45,397
15	Chemicals	6	184	2	14	45	14	109	Ja 141	Jy 92	110	98	12	.....	.....	1,152,915
16	Clothing, men's	38	2,925	35	88	226	107	2,471	No 2,840	Mh 2,110	2,844	769	1,829	72	174	8,317,869
17	Clothing, women's	18	525	16	31	31	25	422	Oc 460	Ja 366	442	65	364	2	11	790,159
18	Confectionery and ice cream	39	3,377	21	108	222	119	2,907	.....	.....	3,124	888	1,503	178	555	8,482,839
19	Confectionery	32	3,163	19	88	213	107	2,736	De 3,073	Je 2,469	2,986	766	1,487	178	555	6,979,386
20	Ice cream	7	214	2	20	9	12	171	Jy 277	Ja 102	138	122	16	.....	.....	1,503,453
21	Cooperage	7	147	2	12	1	3	129	Je 150	No 104	149	146	2	1	.....	393,770
22	Copper, tin, and sheet-iron work	58	486	54	38	13	8	373	Oc 448	Fe 288	422	422	.....	.....	.....	1,058,413
23	Dairymen's and poultrymen's supplies.	6	118	1	12	1	3	101	Fe 110	Jy 98	104	102	2	.....	.....	418,137
24	Electrical machinery, apparatus, and supplies.	21	5,711	3	267	660	452	4,329	De 5,096	Ap 3,993	5,094	3,716	1,217	132	29	17,253,527
25	Electroplating	7	67	7	4	.....	2	54	De 62	Ja 41	61	59	1	1	.....	60,829
26	Engines, steam, gas, and water	6	6,437	.....	238	200	97	5,902	Fe 6,715	Je 4,394	6,007	5,877	119	11	.....	18,729,947
27	Flour-mill and gristmill products	4	389	.....	32	72	26	259	Oc 354	Ja 159	308	308	.....	.....	.....	3,095,255
28	Food preparations, not elsewhere specified	21	429	13	30	24	8	354	.....	.....	439	202	163	6	8	1,870,665
29	Macaroni, vermicelli, and noodles.	4	88	.....	11	12	1	64	Oc 87	Jy 49	86	60	14	4	8	222,086
30	All other	17	341	13	19	12	7	290	Jy 379	Se 182	353	202	149	2	.....	1,648,579
31	Foundry and machine-shop products.	125	8,156	56	434	440	240	6,986	.....	.....	7,758	7,414	286	56	2	24,302,253
32	Boiler shops	7	390	1	18	28	5	338	Ja 486	Je 270	386	385	1	.....	.....	1,255,818
33	Foundries	15	1,864	4	74	24	20	1,742	De 2,075	Ap 1,548	2,087	1,968	93	26	.....	3,793,482
34	Machine shops	99	5,442	51	318	340	193	4,540	De 4,893	Ja 4,093	4,878	4,654	192	30	2	17,689,338
35	Machine shop and foundry combined.	4	460	.....	24	48	22	366	Oc 439	Mh 258	407	407	.....	.....	.....	1,563,615
36	Fur goods	25	303	20	17	24	14	228	De 253	Jy 215	250	89	148	3	10	1,347,737
37	Furniture	31	1,375	19	80	93	38	1,145	.....	.....	1,258	1,092	103	54	9	3,951,176
38	Wood, other than rattan and willow.	22	1,255	11	72	81	36	1,055	De 1,157	Ja 875	1,153	991	100	53	9	3,731,903
39	All other	9	120	8	8	12	2	90	Oc 119	Ja 64	105	101	3	1	.....	219,273
40	Glass, cutting, staining, and ornamenting.	8	56	15	2	1	2	36	Oc 41	Ja [3] 30	36	34	2	.....	.....	62,283
41	Gloves and mittens, leather	13	1,230	11	66	26	15	1,112	Ja 1,290	My 1,065	1,097	374	602	37	84	2,648,823
42	Hair work	5	21	4	2	.....	.....	15	Au [3] 16	Ja [3] 14	16	1	15	.....	.....	13,766
43	Hats and caps, other than felt, straw, and wool.	8	82	7	6	6	1	62	Je 68	Ja 50	64	39	24	1	.....	139,512
44	Iron and steel, steel works and rolling mills.	6	1,763	.....	68	105	22	1,568	Ja 1,942	Oc 961	1,728	1,725	3	.....	.....	11,198,720
45	Iron and steel, tempering and welding.	9	79	7	9	1	6	56	Au 64	De 39	38	38	.....	.....	.....	210,190
46	Jewelry	7	89	6	5	20	8	50	De 52	Se 47	52	45	3	4	.....	50,164
47	Knit goods	37	5,249	21	147	207	231	4,643	De 4,986	Fe 4,268	5,205	961	3,530	257	457	13,653,265
48	Leather, tanned, curried, and finished.	9	4,364	8	206	223	81	3,846	Jy 3,936	Ap 3,743	3,887	3,433	433	21	.....	43,169,956
49	Liquors, malt	6	1,951	.....	54	189	36	1,672	Au 2,025	De 1,102	1,114	1,075	39	.....	.....	52,197,694
50	Lithographing	12	529	1	37	30	23	438	Au 466	Ja 398	437	336	88	6	7	2,066,276
51	Lumber, planing-mill products, not including planing mills connected with sawmills.	26	1,280	11	84	77	34	1,074	De 1,164	Ap 990	1,177	1,150	15	12	.....	6,160,177
52	Machine tools	8	813	5	60	42	18	688	No 785	Ja 591	678	676	2	.....	.....	2,988,151
53	Malt	7	227	2	23	39	3	160	Je 212	De 121	145	144	1	.....	.....	6,152,703
54	Marble and stone work	23	233	27	16	9	7	174	.....	.....	232	230	1	1	.....	828,014
55	Monuments and tombstones	15	73	20	5	1	3	44	Jy [3] 47	Fe 38	45	44	.....	1	.....	213,178
56	Other marble and stone work, except slate.	8	160	7	11	8	4	130	No 197	Fe 90	187	186	1	.....	.....	614,836
57	Mattresses and spring beds, not elsewhere specified.	9	323	8	20	18	10	267	Jy 317	Mh 207	279	203	45	29	2	1,415,898
58	Millinery and lace goods, not elsewhere specified.	13	904	10	20	11	12	851	.....	.....	1,068	294	763	1	10	1,594,639
59	Trimmed hats and hat frames	7	846	5	19	11	10	801	Mh 1,035	Je 570	986	292	685	1	8	1,501,329
60	All other	6	58	5	1	.....	2	50	Ja [3] 83	Jy [3] 30	82	2	78	.....	2	93,310

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
[2] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.										POWER.							
Salaries and wages.				Rent and taxes.		For materials.				Primary horsepower.							
											Owned.						
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufacture.	Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	Electric horsepower generated in establishments reporting.	
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
Dollars. 15,288,918	Dollars. 15,521,087	Dollars. 89,921,118	Dollars. 858,104	Dollars. 1,732,944	Dollars. 28,740,147	Dollars. 328,285,698	Dollars. 13,482,515	Dollars. 576,161,312	Dollars. 234,393,099	162,672	88,681	14,141	1,220	13	58,617	69,805	1
47,582	1,419	101,577	.....	2,962	3,099	199,413	4,571	457,468	253,484	223	.....	.....	21	.....	202	.....	2
315,701	103,563	1,644,533	1,431	60,118	363,798	3,513,080	92,127	6,942,121	3,336,914	2,224	185	.....	38	.....	2,001	.....	3
48,062	24,223	603,298	3,292	83,228	47,853	575,663	45,140	1,686,557	1,065,754	533	.....	.....	12	10	511	.....	4
12,172	15,619	42,796	.....	4,750	3,609	154,956	1,917	268,587	111,714	25	.....	.....	.....	.....	25	.....	5
47,349	126,020	324,553	20,621	22,692	14,436	541,980	7,624	1,276,592	726,988	156	.....	.....	.....	.....	156	.....	6
593,468	1,379,702	4,456,680	.....	65,205	1,042,893	18,308,212	125,777	30,007,285	11,573,296	3,017	1,975	.....	15	.....	1,027	1,552	7
180,058	129,453	906,951	513	55,006	105,497	1,950,206	23,580	4,026,562	2,052,776	629	180	.....	.....	.....	449	248	8
148,999	91,439	704,825	.....	2,680	275,948	2,437,669	33,068	4,299,378	1,828,641	2,314	2,024	50	.....	.....	240	1,305	9
143,448	57,952	599,025	.....	8,812	77,840	1,529,555	66,298	2,952,372	1,356,519	673	350	.....	.....	.....	323	72	10
204,630	300,900	1,417,569	885	71,731	263,476	6,834,690	194,436	11,308,930	4,279,804	974	169	.....	14	.....	791	2	11
.....	520	56,642	.....	1,021	372	145,373	886	219,418	73,159	18	.....	.....	.....	.....	18	.....	12
2,600	2,288	10,934	.....	1,384	177	6,255	686	31,395	24,454	15	.....	.....	.....	.....	15	.....	13
.....	.....	25,161	.....	420	914	24,198	1,340	75,378	49,840	27	.....	.....	2	.....	25	.....	14
31,728	86,212	113,167	.....	4,460	37,107	657,805	23,306	1,260,269	579,158	772	.....	.....	.....	.....	772	.....	15
479,293	512,878	2,062,351	148,372	62,481	426,225	7,079,357	41,769	12,027,246	4,906,120	643	315	.....	.....	.....	328	305	16
87,195	100,746	246,753	5,661	22,562	20,985	995,426	7,336	1,818,744	815,982	150	.....	.....	.....	.....	150	.....	17
472,945	729,065	1,952,510	9,142	71,231	971,905	9,644,469	143,489	16,816,309	7,028,351	3,501	1,330	.....	.....	.....	2,171	677	18
377,648	704,377	1,751,688	6,445	65,661	889,183	8,380,916	89,019	14,837,161	6,367,226	1,949	1,170	.....	.....	.....	779	677	19
95,297	24,688	200,822	2,697	5,570	82,722	1,263,553	54,470	1,979,148	661,125	1,552	160	.....	.....	.....	1,392	.....	20
30,201	4,562	132,912	.....	10,246	10,281	446,423	5,843	711,184	258,918	275	150	.....	.....	.....	125	.....	21
99,329	26,048	451,663	30	15,599	16,928	742,790	16,654	1,708,176	948,732	357	200	.....	9	.....	148	40	22
46,940	4,550	140,829	344	5,377	9,196	244,302	5,202	511,694	262,190	134	.....	.....	4	.....	130	.....	23
868,851	1,129,554	4,531,694	1,896	42,534	625,842	6,100,989	308,549	16,577,685	10,168,147	6,152	1,635	.....	.....	.....	4,517	3,547	24
10,709	1,977	66,593	.....	6,210	1,007	24,561	5,099	146,040	116,380	141	.....	.....	.....	.....	141	.....	25
676,866	365,083	8,218,634	14,130	5,536	2,054,982	14,120,191	551,607	31,867,356	17,195,558	6,303	3,925	.....	.....	.....	2,378	6,396	26
114,572	86,445	318,138	.....	14,988	45,889	7,818,692	90,780	9,257,389	1,347,917	3,472	1,600	.....	.....	.....	1,872	187	27
81,480	35,094	340,228	445	61,632	38,150	4,321,356	123,209	5,700,141	1,255,576	2,440	1,527	.....	.....	.....	913	250	28
22,840	21,142	55,907	.....	8,234	9,487	279,762	15,409	516,733	221,562	198	.....	.....	.....	.....	198	.....	29
58,640	13,952	284,321	445	53,398	28,663	4,041,594	107,800	5,183,408	1,034,014	2,242	1,527	.....	.....	.....	715	250	30
1,490,122	754,137	7,466,491	113,497	89,890	1,432,741	12,552,618	850,398	32,701,117	19,298,101	13,790	4,642	40	48	.....	9,060	3,213	31
120,705	44,751	423,795	.....	3,658	141,040	878,754	116,863	1,924,782	929,165	2,587	900	.....	.....	.....	1,687	207	32
232,036	52,208	2,425,775	51,000	11,215	196,738	1,395,608	349,926	5,784,486	4,038,952	3,941	1,030	.....	.....	.....	2,911	500	33
1,062,873	577,454	4,151,215	62,497	73,517	1,039,876	9,656,032	348,021	23,008,586	13,004,533	6,724	2,562	40	48	.....	4,074	2,261	34
74,508	79,724	465,706	.....	1,500	55,087	622,224	35,588	1,983,263	1,325,451	538	150	.....	.....	.....	388	245	35
62,842	105,205	236,151	1,526	22,006	47,754	864,538	8,523	1,612,673	739,612	105	.....	.....	.....	.....	105	.....	36
212,754	269,703	1,141,192	3,468	9,682	70,971	2,025,968	46,994	4,313,164	2,240,202	1,634	1,182	75	96	.....	281	790	37
186,154	247,729	1,042,913	3,468	6,073	67,823	1,824,412	40,977	3,915,876	2,050,487	1,421	1,032	75	66	.....	248	770	38
26,600	21,974	98,279	.....	3,609	3,148	201,556	6,017	397,288	189,715	213	150	.....	30	.....	33	20	39
3,650	1,858	41,800	.....	4,960	526	59,748	1,349	146,960	85,863	24	.....	.....	.....	.....	24	.....	40
194,390	42,524	767,970	.....	23,935	296,472	2,595,704	19,151	4,192,835	1,577,980	446	240	.....	28	.....	178	40	41
2,062	.....	10,311	.....	2,850	115	12,606	739	37,553	24,208	1	.....	.....	.....	.....	1	.....	42
18,469	6,532	70,809	.....	4,735	2,298	78,022	1,636	317,132	237,474	14	.....	.....	.....	.....	14	.....	43
231,328	253,117	2,452,840	.....	2,201	792,380	8,708,784	752,401	13,841,234	4,380,049	16,418	11,700	.....	670	.....	4,048	5,350	44
13,533	4,847	83,933	1,139	3,062	7,865	27,762	12,345	215,802	175,695	290	175	.....	.....	.....	115	.....	45
10,180	6,613	55,434	.....	3,675	527	59,259	752	162,425	102,414	27	.....	.....	.....	.....	27	.....	46
634,077	776,296	3,160,028	55,035	109,277	1,208,503	14,308,807	125,981	24,015,467	9,580,679	2,787	2,115	.....	.....	.....	672	1,256	47
852,263	574,097	4,534,847	2,832	8,850	2,501,827	39,382,210	451,075	54,007,415	14,174,130	14,029	4,673	8,650	.....	.....	706	11,467	48
323,671	440,538	1,925,349	.....	.....	4,580,744	6,732,620	431,310	22,509,127	15,345,197	13,341	9,550	.....	.....	.....	3,791	2,955	49
137,633	90,660	496,527	18,446	14,721	98,450	872,731	19,730	2,079,440	1,186,979	569	.....	.....	.....	.....	569	.....	50
273,953	144,678	1,238,025	.....	10,818	173,514	2,432,198	40,536	5,142,779	2,670,045	2,835	2,135	150	54	.....	496	1,521	51
203,641	77,363	872,122	.....	9,086	370,266	785,488	23,917	3,428,754	2,619,349	694	400	.....	.....	.....	294	.....	52
122,493	78,547	251,673	.....	.....	176,305	6,232,590	213,042	7,639,938	1,194,306	4,159	2,625	1,250	.....	.....	284	2,116	53
48,471	14,899	226,750	3,408	3,271	8,436	411,629	18,409	936,125	506,087	1,139	525	46	6	.....	562	837	54
10,800	3,354	56,305	800	1,330	2,153	76,041	4,835	253,128	172,252	136	.....	46	.....	.....	90	.....	55
37,671	11,545	170,445	2,608	1,941	6,283	335,588	13,574	682,997	333,835	1,003	525	.....	6	.....	472	837	56
46,167	50,547	233,697	.....	12,112	25,934	863,982	11,630	1,678,634	803,022	485	340	.....	.....	.....	145	75	57
70,422	40,142	699,081	1,559	12,894	223,905	1,570,137	26,442	3,352,886	1,756,307	242	210	.....	.....	.....	32	220	58
66,722	38,316	657,276	1,559	7,206	223,227	1,466,397	25,388	3,162,617	1,670,832	227	210	.....	.....	.....	17	220	59
3,700	1,826	41,805	.....	5,688	678	103,740	1,054	190,269	85,475	15	.....	.....	.....	.....	15	.....	60

[1] Same number reported for one or more other months.
[2] Same number reported throughout the year.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.		Wage earners. Number, 15th day of— Minimum month.		WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
	MILWAUKEE—Continued.																	*Dollars.*
1	Mineral and soda waters	24	186	22	23	16	5	120	Jy	160	No	100	109	108	1	.....	.....	471,771
2	Models and patterns, not including paper patterns.	25	319	25	18	10	9	257	De	348	Jy	190	343	302	37	4	.....	385,249
3	Paints	5	418	3	20	118	65	212	De	264	Ja [2]	171	264	213	41	2	8	2,472,061
4	Paper goods, not elsewhere specified	6	474	.....	33	36	46	359	De	425	My	307	420	195	204	11	10	1,658,962
5	Patent medicines and compounds	26	147	20	22	12	34	59	.....		.....		56	30	24	2	.....	334,107
6	Patent and proprietary medicines.	18	108	12	14	7	28	47	Mh	62	Jy	36	42	17	24	1	.....	245,586
7	Patent and proprietary compounds, not elsewhere specified.	8	39	8	8	5	6	12	Au [2]	14	Jy	10	14	13	.....	1	.....	88,541
8	Photo-engraving	5	115	3	6	11	5	90	Jy [2]	94	Fe	83	94	90	.....	4	.....	103,659
9	Plumbers' supplies, not elsewhere specified.	5	189	1	11	8	2	167	De	186	Je	150	189	185	4	.....	.....	887,641
10	Printing and publishing, book and job	122	2,049	94	179	127	105	1,544	.....		.....		1,847	1,287	500	42	18	3,868,296
11	Job printing	108	1,925	92	163	92	69	1,509	De	1,810	Ja	1,290	1,809	1,254	496	42	17	3,610,696
12	All other	14	124	2	16	35	36	35	Au	38	Ap [2]	33	38	33	4	.....	1	257,599
13	Printing and publishing, newspapers and periodicals.	49	1,966	16	101	674	354	821	.....		.....		854	736	107	9	2	4,270,461
14	Printing and publishing	9	1,327	.....	55	561	224	487	De	502	Ja	476	501	482	19	.....	.....	2,657,771
15	Printing, publishing, and job printing.	13	499	6	16	82	66	329	De	347	Je	308	348	249	88	9	2	1,440,419
16	Publishing without printing	27	140	10	30	31	64	5	(4)	5	(4)	5	5	5	.....	.....	.....	172,280
17	Saddlery and harness	11	360	8	20	41	24	267	Oc	296	Ja	227	281	209	62	7	3	1,462,576
18	Sausage, not made in slaughtering and meat-packing establishments.	14	261	14	17	26	11	193	De	232	My	153	229	194	35	.....	.....	934,196
19	Signs and advertising novelties	9	498	11	20	17	7	443	No	460	Fe	422	453	191	196	32	34	517,613
20	Slaughtering and meat packing	11	1,951	14	162	163	36	1,576	Ja	1,886	Ap	1,359	1,776	1,620	156	.....	.....	6,631,249
21	Statuary and art goods	9	63	5	8	1	1	48	De	57	Mh	37	56	54	.....	2	.....	199,539
22	Structural ironwork, not made in steel works or rolling mills.	14	806	7	35	99	31	634	No	767	Mh	522	718	718	.....	.....	.....	3,326,763
23	Surgical appliances	4	19	4	2	.....	1	12	(4)	12	(4)	12	12	3	9	.....	.....	49,811
24	Suspenders, garters, and elastic woven goods.	5	21	6	1	1	2	11	(4)	11	(4)	11	11	3	8	.....	.....	50,507
25	Tobacco, cigars	195	1,087	195	29	23	7	833	De	944	Au	733	941	633	308	.....	.....	1,339,427
26	Tools, not elsewhere specified	16	328	8	38	17	13	252	.....		.....		341	327	14	.....	.....	699,558
27	Machinists' tools	11	164	8	22	2	4	128	De	177	Fe	94	169	169	.....	.....	.....	325,843
28	All other	5	164	.....	16	15	9	124	No	181	Ja	70	172	158	14	.....	.....	373,715
29	Toys and games	6	208	7	12	2	5	182	Se	263	Ja	103	203	142	24	18	19	289,881
30	Trunks and valises	7	428	2	16	48	23	339	Oc	376	Ja	317	357	263	51	33	10	993,447
31	Wirework, not elsewhere specified	4	8	4	.....	.....	.....	4	Se [2]	6	Ja [2]	3	6	6	.....	.....	.....	19,456
32	Wood, turned and carved	4	10	6	.....	.....	.....	4	(4)	4	(4)	4	5	5	.....	.....	.....	12,650
33	All other industries*	303	25,783	147	996	1,894	941	21,805	.....		.....		22,910	19,951	2,585	198	176	115,412,052

*All other industries embrace—

Agricultural implements	3
Artificial limbs	3
Automobiles	4
Babbitt metal	1
Bags, other than paper, not including bags made in textile mills	4
Baking powders and yeast	2
Baskets, and rattan and willow ware	3
Belting, leather	3
Billiard tables and accessories	1
Blacking, stains, and dressings	4
Bluing	2
Boot and shoe findings	7
Boxes, cigar	1
Brick and tile, terra-cotta, and fire-clay products	2
Brushes	10
Butter	3
Canning and preserving, dried vegetables	1
Carriage and wagon materials	1
Carriages and sleds, children's	1
Cars and general shop construction and repairs by electric-railroad companies	1
Cars and general shop construction and repairs by steam-railroad companies	2
Cars, steam-railroad, not including operations of railroad companies	2
Cheese	1
Chocolate and cocoa products	1
Cleansing preparations	3
Clocks	1
Clothing, horse	1
Clothing, men's, buttonholes	1
Coal-tar products	2
Coffee, roasting and grinding	10
Coffins, burial cases, and undertakers' goods	3
Coke, not including gas-house coke	1
Cordage and twine	2
Cotton goods	1
Cutlery and edge tools	1
Dental goods, teeth	3
Drug grinding	1
Druggists' preparations	5
Dyeing and finishing textiles, exclusive of that done in textile mills	1
Engraving and diesinking	3
Engraving, steel and copper plate, including plate printing	7
Envelopes	3
Fancy articles, not elsewhere specified	1
Felt goods	1
Files	1
Flags and banners	1
Flavoring extracts	6
Furnishing goods, men's	2
Furs, dressed	3
Galvanizing	2
Gas and electric fixtures	9
Gas, illuminating and heating	1
Gas and water meters	1
Glass	1
Gold and silver, reducing and refining, not from the ore	2
Grease and tallow, not including lubricating greases	2
Hand stamps	3
Hardware	3
Hats, fur-felt	1
Hats, straw	3
House-furnishing goods, not elsewhere specified	4
Ice, manufactured	1
Ink, printing	1
Ink, writing	1
Instruments, professional and scientific	2
Iron and steel, blast furnaces	1
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	2

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
[2] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.							
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						Electric horsepower generated in establishments reporting.	
											Owned.						
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[1]		
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*								
37,863	21,121	130,512	.....	5,570	11,440	302,907	7,073	672,989	363,009	78	30	.....	2	1	45	.....	1
62,596	41,451	322,848	1,500	10,862	5,009	135,024	8,178	775,872	632,670	200	.....	.....	4	.....	196	.....	2
87,463	278,932	260,775	.....	11,084	172,347	3,043,444	23,164	4,262,913	1,196,305	785	565	.....	.....	.....	220	132	3
91,792	114,303	277,515	7,175	14,206	21,924	1,159,957	15,803	2,207,502	1,031,742	518	165	.....	.....	.....	353	.....	4
41,734	46,135	42,906	1,032	13,687	13,644	381,296	2,433	794,854	411,125	53	.....	.....	.....	.....	53	.....	5
33,942	35,250	33,467	1,032	8,547	12,571	297,549	1,434	645,609	346,626	39	.....	.....	.....	.....	39	.....	6
7,792	10,885	9,439	.....	5,140	1,073	83,747	999	149,245	64,499	14	.....	.....	.....	.....	14	.....	7
12,997	22,867	141,122	.....	6,915	947	45,349	2,792	376,892	328,751	50	.....	.....	.....	.....	50	.....	8
32,157	8,900	163,515	.....	4,535	17,237	234,472	16,925	516,540	265,143	258	75	.....	.....	.....	183	.....	9
451,645	245,641	1,499,794	83,635	100,630	68,704	2,055,220	52,591	5,551,573	3,443,762	1,362	40	.....	62	.....	1,260	.....	10
420,292	172,647	1,447,204	30,132	91,976	67,363	1,983,259	50,388	5,199,262	3,165,615	1,344	40	.....	62	.....	1,242	.....	11
31,353	72,994	52,590	53,503	8,654	1,341	71,961	2,203	352,311	278,147	18	.....	.....	.....	.....	18	.....	12
384,057	928,749	1,198,909	172,007	66,998	216,341	2,263,750	39,942	7,070,478	4,766,786	1,205	.....	.....	.....	2	1,203	.....	13
231,006	703,945	781,151	12,607	21,592	188,982	1,581,609	23,073	4,936,963	3,332,281	748	.....	.....	.....	.....	748	.....	14
45,459	151,531	410,981	1,369	35,046	18,024	546,824	16,738	1,420,436	856,874	455	.....	.....	.....	2	453	.....	15
107,592	73,273	6,777	158,031	10,360	9,335	135,317	131	713,079	577,631	2	.....	.....	.....	.....	2	.....	16
121,437	84,710	322,649	104	17,583	656,578	2,302,866	7,362	3,694,921	1,384,693	110	.....	.....	.....	.....	110	.....	17
77,626	39,531	245,944	.....	6,619	34,972	2,474,823	33,632	3,337,034	828,579	727	410	.....	30	.....	287	85	18
69,594	25,426	288,028	16,900	14,414	21,517	453,348	9,255	1,068,731	606,128	144	.....	.....	.....	.....	144	.....	19
294,155	256,476	1,894,887	.....	32,273	1,193,605	37,673,534	355,268	44,949,676	6,920,874	3,801	2,692	950	.....	.....	159	1,120	20
15,259	899	55,263	10,638	4,394	2,859	25,024	1,177	152,294	126,093	11	.....	.....	.....	.....	11	.....	21
157,684	159,575	901,417	39,763	3,476	210,403	2,527,622	39,398	4,551,572	1,984,552	1,231	820	.....	.....	.....	411	896	22
3,000	800	8,788	.....	2,416	470	36,401	1,257	63,276	25,618	7	.....	.....	.....	.....	7	.....	23
1,250	5,392	7,851	.....	1,488	237	87,237	434	124,265	36,594	5	.....	.....	.....	.....	5	.....	24
48,494	54,621	784,865	205	30,757	268,873	1,297,109	7,930	2,931,358	1,626,319	35	10	.....	.....	.....	25	.....	25
72,093	23,065	365,229	2,590	11,384	7,569	148,755	13,813	698,138	535,570	341	.....	.....	.....	.....	341	.....	26
37,942	5,355	174,465	2,590	6,676	4,433	40,339	5,062	328,071	282,670	136	.....	.....	.....	.....	136	.....	27
34,151	17,710	190,764	.....	4,708	3,136	108,416	8,751	370,067	252,900	205	.....	.....	.....	.....	205	.....	28
23,689	3,807	110,809	3,465	1,365	14,879	186,787	6,124	429,210	236,299	146	125	.....	.....	.....	21	50	29
63,780	169,571	273,308	.....	3,490	24,416	871,473	12,096	1,679,237	795,668	333	295	.....	.....	.....	38	325	30
.....	.....	4,414	22	216	210	5,247	263	18,371	12,861	17	.....	.....	.....	.....	17	.....	31
.....	.....	4,603	.....	232	106	12,594	827	32,219	18,798	25	.....	.....	.....	.....	25	.....	32
3,442,254	3,941,500	25,180,121	111,896	317,430	7,290,913	81,566,447	7,848,125	145,915,661	56,501,089	43,033	27,377	2,930	105	.....	12,621	22,776	33

Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.. 1
Labels and tags..... 1
Lamps and reflectors..... 1
Lasts..... 1
Lead, bar, pipe, and sheet..... 2
Leather goods, not elsewhere specified 5
Looking-glass and picture frames..... 3
Mats and matting, from cocoa fiber, grass, and coir..... 1
Minerals and earths, ground, or otherwise treated..... 2
Mirrors, framed and unframed, not elsewhere specified..... 4
Motorcycles, bicycles, and parts 4
Mucilage, paste, and other adhesives, not specified..... 2
Musical instruments and materials, not specified..... 5
Musical instruments, organs..... 2
Musical instruments, pianos..... 3
Musical instruments, piano and organ materials..... 2
Oil, not elsewhere specified..... 4
Oleomargarine and other butter substitutes..... 2
Optical goods..... 3
Paper and wood pulp..... 1
Perfumery and cosmetics..... 3
Phonographs and graphophones..... 3
Photographic apparatus..... 1
Photographic materials..... 2
Pickles and sauces..... 1
Pocketbooks..... 2
Printing materials..... 1
Pumps, not including power pumps . 3
Pumps, steam and other power..... 2
Refrigerators..... 2
Regalia, and society badges and emblems..... 1
Roofing materials..... 2
Rubber tires, tubes, and rubber goods, not elsewhere specified..... 1
Safes..... 2
Scales and balances..... 1
Screws, machine..... 5
Shipbuilding, steel..... 2
Shipbuilding, wooden, new vessels... 1
Shirts..... 1
Show cases..... 1
Smelting and refining, not from the ore..... 1
Soap..... 7
Sporting and athletic goods..... 1
Springs, steel, automobile, not made in steel works or rolling mills..... 1
Stamped and enameled ware, not elsewhere specified..... 3
Stationery goods, not elsewhere specified..... 2
Steam fittings and steam and hot-water heating apparatus..... 3
Steam packing..... 4
Stereotyping and electrotyping..... 3
Stoves and hot-air furnaces..... 3
Stoves, gas and oil..... 3
Tobacco, smoking, and snuff..... 3
Umbrellas and canes..... 2
Varnishes..... 1
Wall plaster and composition flooring. 2
Washing machines and clothes wringers..... 1
Waste, cotton..... 1
Window shades and fixtures..... 2
Wire..... 1
Wool scouring..... 1
Wool shoddy..... 1
Woolen goods 2
Worsted goods 2

[3] Same number reported for one or more other months.
[4] Same number reported throughout the year.

TABLE 36.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
1	RACINE—All industries	230	20,117	161	820	2,393	931	15,812	De 16,645	Ja 14,611	17,203	15,235	1,770	111	87	Dollars. 108,280,953
2	Agricultural implements	5	6,164	.....	238	1,537	131	4,258	Mh 4,662	Oc 3,399	4,602	4,592	5	5	.....	49,293,621
3	Automobile bodies and parts	12	1,287	3	67	64	45	1,108	De 1,290	Ja 812	1,290	1,207	83	.....	.....	3,359,994
4	Automobile repairing	9	38	11	.....	1	1	25	De 27	Ja [2] 24	27	27	.....	.....	.....	56,113
5	Boots and shoes	8	534	1	16	17	24	476	De 611	My [2] 392	611	331	234	22	24	1,647,727
6	Bread and other bakery products	30	131	36	7	2	16	70	Au 76	Ja 66	69	56	11	1	1	248,421
7	Confectionery and ice cream	5	60	1	7	5	3	44	Je 61	Ja 34	62	44	18	.....	.....	232,412
8	Copper, tin, and sheet-iron work	11	103	9	6	10	4	74	Au 85	Ja 64	81	79	.....	2	.....	196,249
9	Electrical machinery, apparatus, and supplies.	7	1,132	1	60	106	93	872	De 1,241	My 384	1,240	940	299	1	.....	2,758,717
10	Foundry and machine-shop products	19	1,472	4	87	43	32	1,306	.....	.....	1,528	1,500	24	4	.....	4,022,316
11	Foundries	8	835	.....	48	7	5	775	De 933	Ap 542	934	921	12	1	.....	1,990,299
12	Machine shops and machine shop and foundry combined.	11	637	4	39	36	27	531	No 630	Ja 431	594	579	12	3	.....	2,032,017
13	Hardware	5	175	1	18	6	7	143	No 194	Ap 110	193	166	21	6	.....	470,654
14	Lumber, planing-mill products, not including planing mills connected with sawmills.	7	73	6	5	1	2	59	Je 78	Mh 40	58	58	.....	.....	.....	602,363
15	Models and patterns, not including paper patterns.	4	73	4	3	.....	1	65	Se 71	Je 56	71	71	.....	.....	.....	56,280
16	Printing and publishing, book and job.	9	174	8	10	18	11	127	Mh 142	Ja 108	133	84	39	4	6	661,625
17	Tobacco, cigars	10	49	13	.....	1	.....	35	My 39	Se 32	32	28	4	.....	.....	48,132
18	Trunks and valises	4	425	.....	13	26	37	349	Oc 361	Ja 324	356	213	90	40	13	970,157
19	All other industries*	85	8,227	63	283	556	524	6,801	.....	.....	6,850	5,839	942	26	43	43,656,172

*All other industries embrace—

Aluminum manufactures	2
Artificial stone products	1
Automobiles	1
Bags, other than paper, not including bags made in textile mills	1
Baskets, and rattan and willow ware	1
Bookbinding and blank-bookmaking	1
Boxes, paper, set-up, paper boxes	1
Brass and bronze products	2
Brooms, from broom corn	2
Canning and preserving, vegetables	1
Carpets, rag	1
Carriages and wagons	2
Cars and general shop construction and repairs by steam-railroad companies	1
Cleansing and polishing preparations	3
Cutlery and edge tools, scissors, shears, and clippers	1
Dairymen's and poultrymen's supplies	3
Dental goods	1
Electroplating	2
Engines, steam, gas, and water	1
Fancy articles, metal novelties	1
Flavoring extracts	1
Flour-mill and gristmill products	1
Food preparations, not elsewhere specified	3
Furniture	5
Gas, illuminating and heating	1
Glass, cutting, staining, and ornamenting	1
Hardware, saddlery	1

	CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.															
1	APPLETON	96	3,115	68	183	95	78	2,691	De 2,789	Ap 2,642	2,693	2,202	470	17	4	14,031,470
2	ASHLAND	44	1,224	29	57	28	30	1,080	De 1,374	Ap 906	1,394	1,355	39	.....	.....	5,639,379
3	BELOIT	59	5,694	50	180	495	346	4,623	De 6,014	Fe 3,982	5,975	5,366	532	66	11	16,939,092
4	EAU CLAIRE	96	3,804	53	206	159	85	3,301	De 3,758	My 2,797	3,834	3,356	465	13	.....	16,294,651
5	FOND DU LAC	104	3,722	84	126	155	118	3,239	No 3,450	Ja 3,016	3,455	2,644	708	74	29	14,017,249
6	GREEN BAY	145	5,682	93	299	309	183	4,798	Se 5,168	Mh 4,464	5,076	4,175	863	27	11	25,271,249
7	JANESVILLE	85	3,785	61	154	503	264	2,803	No 4,010	Fe 2,031	3,412	2,671	700	21	20	18,058,612
8	KENOSHA	84	15,210	71	535	1,068	491	13,045	Se 14,240	Fe 11,736	13,828	12,219	1,373	139	97	67,063,981
9	LA CROSSE	151	5,406	125	268	296	214	4,503	De 4,870	My 4,125	4,963	3,429	1,395	56	83	23,848,616
10	MADISON	147	4,007	99	196	296	227	3,189	De 3,923	Ap 1,981	4,209	3,445	547	211	6	14,667,366
11	MANITOWOC	101	4,879	86	177	328	210	4,078	Jy 4,611	De 3,444	3,804	2,943	694	90	77	18,180,032
12	MARINETTE	56	2,919	34	75	94	68	2,648	Fe 2,939	Se 2,385	3,302	2,764	311	44	183	7,922,920
13	OSHKOSH	169	7,373	117	359	527	180	6,190	De 6,997	Fe 5,760	7,081	5,416	1,358	167	140	27,517,186
14	SHEBOYGAN	160	7,649	97	411	424	250	6,467	De 7,105	Je 6,098	7,222	5,644	1,126	277	175	26,369,129
15	STEVENS POINT	47	1,410	43	52	55	29	1,231	Jy 1,340	Fe 1,108	1,288	960	230	42	56	3,978,424
16	SUPERIOR	94	6,711	77	133	228	111	6,162	Mh 6,573	De 5,546	5,482	5,271	200	10	1	13,193,789
17	WAUKESHA	72	2,811	47	141	150	134	2,339	De 2,655	Je 1,940	2,202	1,933	235	17	17	16,436,585
18	WAUSAU	83	2,711	57	124	138	72	2,320	No 2,549	Ja 1,972	2,741	2,204	509	28	.....	9,918,108
19	WEST ALLIS	34	8,851	7	404	962	508	6,970	Ja 8,199	Au 6,173	7,217	7,064	134	19	.....	55,518,539

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
[2] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.										POWER.						
Salaries and wages.				Rent and taxes.		For materials.				Primary horsepower.						
											Owned.					
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufacture.	Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	Electric horsepower generated in establishments reporting.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufacture.	Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	Electric horsepower generated in establishments reporting.	
Dollars. 2,795,104	*Dollars.* 4,581,873	*Dollars.* 21,728,929	*Dollars.* 48,866	*Dollars.* 157,043	*Dollars.* 4,234,795	*Dollars.* 56,652,170	*Dollars.* 1,949,554	*Dollars.* 120,027,399	*Dollars.* 61,425,675	29,419	12,394	4,135	148	.....	12,742	9,299	1
778,237	2,438,067	6,571,404	.....	43,720	1,192,319	15,380,103	422,942	38,904,257	23,101,212	7,988	4,680	2,250	.....	.....	1,058	5,549	2
171,264	205,347	1,583,642	.....	15,547	86,480	2,551,484	78,481	5,146,786	2,516,821	1,115	.....	.....	.....	.....	1,115	.....	3
.....	2,316	53,566	.....	3,330	272	25,244	1,285	87,301	60,772	41	.....	.....	.....	.....	41	.....	4
50,566	142,383	507,735	.....	9,005	51,070	1,857,941	12,267	2,918,681	1,048,473	366	200	.....	.....	.....	166	.....	5
11,360	11,323	100,232	1,540	12,541	2,402	507,445	15,979	779,702	256,278	75	.....	.....	.....	.....	75	.....	6
10,140	8,154	36,685	.....	2,130	5,146	206,409	8,617	348,369	133,343	210	.....	.....	.....	.....	210	.....	7
14,815	15,836	80,169	.....	2,498	10,630	188,891	1,330	399,649	209,428	19	.....	.....	.....	.....	19	.....	8
177,585	213,405	946,276	.....	10,527	290,307	1,417,414	34,603	4,012,066	2,560,049	907	450	.....	.....	.....	457	220	9
376,812	128,224	1,896,410	17,852	3,724	193,484	2,226,918	175,353	5,877,585	3,475,314	1,902	650	.....	30	.....	1,222	460	10
197,303	20,764	1,218,952	2,867	705	110,077	1,080,041	127,032	3,087,047	1,879,974	1,103	300	.....	30	.....	773	278	11
179,509	107,460	677,458	14,985	3,019	83,407	1,146,877	48,321	2,790,538	1,595,340	799	350	.....	.....	.....	449	191	12
53,643	21,844	111,733	.....	1,500	13,499	429,121	11,524	734,363	293,718	357	100	.....	18	.....	239	.....	13
15,707	3,884	85,297	.....	1,788	4,852	216,898	3,765	386,172	165,509	207	.....	.....	51	.....	156	.....	14
9,823	580	101,702	.....	2,148	710	19,116	1,705	175,999	155,178	66	.....	.....	.....	.....	66	.....	15
56,706	47,870	139,646	1,248	9,420	7,555	382,458	8,370	703,966	313,138	955	.....	.....	.....	.....	955	.....	16
.....	60	35,688	.....	2,504	12,566	51,289	412	123,008	71,307	2	.....	.....	.....	.....	2	.....	17
70,500	137,120	278,132	.....	1,440	109,870	1,014,185	14,567	2,004,329	975,577	398	300	.....	.....	.....	98	271	18
997,946	1,205,460	9,200,612	28,226	35,221	2,253,633	30,177,254	1,158,354	57,425,166	26,089,558	14,811	6,014	1,885	49	.....	6,863	2,790	19

House-furnishing goods, not elsewhere specified 1
Iron and steel, steel works and rolling mills 1
Iron and steel, welding 2
Jewelry and instrument cases 1
Leather, tanned, curried, and finished 1
Liquors, malt 1
Machine tools 2
Marble and stone work 3
Mineral and carbonated waters 3
Patent and proprietary medicines 1
Perfumery and cosmetics 1
Phonographs and graphophones 1
Photo-engraving 1
Printing and publishing, newspapers and periodicals 3
Rubber tires, tubes, and rubber goods, not elsewhere specified 3
Saddlery and harness 1
Sausage, not made in slaughtering and meat-packing establishments 1
Screws, machine 2
Sewing machines 1
Shipbuilding, wooden, small boats 1
Shirts 2
Signs and advertising novelties 3
Springs, steel, automobile, not made in steel works or rolling mills 2
Stereotyping and electrotyping 1
Tobacco 1
Tools, machinists' 2
Wirework, not elsewhere specified 1

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

495,785	293,789	2,724,147	10,426	34,402	1,190,366	8,617,817	605,715	17,166,932	7,943,400	15,903	6,041	1,783	30	5,527	2,522	5,541	1
129,565	53,415	1,326,319	15	6,710	123,823	2,205,455	529,526	5,004,270	2,269,289	5,263	4,192	.....	9	.....	1,062	150	2
682,365	819,285	5,914,108	6	22,636	1,115,950	8,823,560	631,090	21,105,232	11,650,582	8,133	2,575	1,670	1,999	910	979	7,456	3
513,585	285,985	2,951,765	27,110	20,853	512,594	8,152,046	408,666	15,791,554	7,230,842	17,574	4,505	.....	120	7,400	5,549	2,206	4
432,543	404,905	3,153,634	99,742	23,006	694,081	13,433,143	298,048	22,337,653	8,606,462	6,368	1,831	3,340	46	.....	1,151	3,775	5
1,062,821	475,961	4,907,304	217,930	39,679	1,718,577	13,107,749	705,578	28,188,292	14,374,965	12,475	6,199	72	.....	.....	6,204	489	6
611,149	692,857	2,615,144	1,835	31,657	474,831	10,331,026	232,935	16,023,213	5,459,252	4,929	2,150	498	77	302	1,902	242	7
2,504,421	2,134,481	18,558,801	8,926	15,945	6,392,689	59,793,605	1,605,040	103,725,717	42,327,072	35,319	16,413	4,616	.....	.....	14,290	16,416	8
809,516	700,162	3,876,692	24,502	51,035	1,052,796	13,841,989	396,782	24,935,983	10,697,212	10,788	6,629	.....	29	.....	4,130	1,499	9
820,450	854,069	3,474,473	158,420	60,253	829,801	7,241,441	420,783	16,823,242	9,161,018	8,474	3,032	125	33	.....	5,284	3,548	10
555,958	782,127	5,240,862	2,338	21,239	2,318,395	14,678,979	424,341	27,761,586	12,658,266	8,837	3,619	.....	139	.....	5,079	3,593	11
315,220	206,017	2,249,680	53,976	7,331	414,297	6,530,738	143,668	11,027,838	4,353,432	9,019	5,006	.....	26	2,100	1,887	12	12
1,079,043	972,045	5,213,731	17,312	41,668	1,218,806	13,287,056	399,487	27,571,897	13,885,354	15,770	10,255	2,287	151	.....	3,077	5,121	13
1,389,073	854,466	5,850,682	15,962	56,894	1,099,180	16,173,778	539,612	31,497,124	14,783,734	11,853	8,247	.....	48	.....	3,558	2,706	14
129,778	101,681	1,196,234	23,254	7,738	178,309	2,098,205	86,311	4,233,674	2,049,158	8,040	1,426	.....	26	5,966	622	2,168	15
638,142	415,075	9,628,815	17,408	142,702	886,705	26,900,973	412,973	44,043,214	16,729,268	11,755	3,776	.....	34	.....	7,945	1,427	16
376,708	304,847	2,569,516	11,962	13,208	1,007,233	9,486,033	334,644	17,029,441	7,208,764	4,353	1,030	.....	2	55	3,266	85	17
373,074	253,581	2,200,703	66,798	9,773	418,728	8,736,501	183,465	13,395,166	4,475,200	8,040	4,460	.....	43	.....	3,537	1,388	18
1,552,175	1,881,774	8,813,005	16,772	1,593	2,132,612	15,318,999	985,095	36,477,071	20,172,977	29,716	18,130	9,200	50	.....	2,336	36,829	19

[1] Same number reported for one or more other months.

MINES AND QUARRIES—WISCONSIN.

EXPLANATION OF TERMS.

Scope of census and period covered.—The census of mines, quarries, and petroleum or natural-gas wells does not cover enterprises which were idle; that is, in which neither productive nor development work was done during the entire year, or the products of which were valued at less than $500; or in the case of bituminous coal mining, producing less than 1,000 tons, or, if not productive, in which development work amounting to less than $5,000 was done. The returns relate to the calendar year 1919. When use is made of the statistics relating to character of ownership, size of enterprises, and similar subjects, it is imperative that due attention be given their limitations, particularly in connection with any attempt to show average wages, cost of production, or profits.

The enterprise.—The term "enterprise" represents one or more mines and quarries, wells or groups of wells, or natural-gas gasoline plants, all within the same state, operated under a common ownership or unified control, or for which only one set of books of account was kept, and for which a single report was secured. It may cover plants at several localities within the same state. If plants under unified control were not all located within the same state, separate reports were secured in order that statistics for the several enterprises thus defined might be included in statistics for the states in which they were located. The enterprise is further defined as being limited to a single industry.

Number of mines, quarries, wells, and plants.—Under these designations is given the number of mines, quarries, wells, and gasoline plants shown by the returns. As a rule each group of workings at a given locality in which operations were conducted as a unit or were unified by common management or joint handling of some part of the mining process, has been considered as a single mine or quarry. Many individual openings, therefore, are not counted as individual mines. The total number reported comprises those in operation or in the course of development during the year 1919. For petroleum and natural-gas wells the individual wells were counted and the total number productive December 31, 1919, is reported. The number of natural-gas gasoline plants is the total number reported in operation during the year.

Classification by industries.—The enterprises reported have been grouped by industries according to the kind of products.

Selected industries.—The detailed table gives the principal facts separately for the leading industries of the state.

Influence of increased prices.—In comparing figures for cost of supplies and materials and value of products with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years.

Persons engaged in the industry.—The number of persons engaged in each industry, by occupation, sex, and, in the case of wage earners, also by age, was reported for a single representative day. In addition to the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively.

Prevailing hours of labor.—This inquiry called merely for the prevailing practice followed in each enterprise. Occasional variations in hours from one part of the year to another were disregarded, and also where a few wage earners might have hours differing from the majority. All the wage earners of each enterprise are therefore counted in the class within which the enterprise falls.

Capital.—The instructions on the schedule relating to capital were as follows: "The answer should show the total amount of capital, owned and borrowed, invested by the operator in the enterprise on the last day of the business year reported. *Do not* include securities and loans representing investments in other enterprises." The reports received in respect to capital, however, have in so many cases been defective that the data compiled only indicate very general conditions.

Expenses.—The expenses reported in the census of 1919 include salaries and wages; the cost of supplies, materials, and fuels, including the freight on these; cost of power purchased; the cost of contract work; royalties and rents paid; and taxes paid or assessed. The census of 1909 reported in addition to the items of expenses covered by the present census all other items of expense incident to that year's business, except interest on indebtedness, dividends, and allowances for depreciation.

Supplies and materials, fuel, and power.—Statistics as to supplies and materials, fuel, and power, relate to the cost of these used during the year which may be more or less than the amount purchased during the year. The term "supplies and materials" covers mine, mill, quarry, and well supplies, and mineral purchased for treatment, resale, or distribution.

Royalties and rents.—The amounts given under this head represent the payment to fee holders or the value of share of product credited to fee holders for mineral output from leased land, and also rents paid for plants, equipment, and privileges or easements.

Taxes.—The taxes include Federal capital stock; corporation income, and excess profits tax; and also state, county, and local taxes. The data compiled in respect to Federal taxes are very defective as many mining corporations are engaged in other business and have sources of income other than from mining and do not pay taxes on mining separately.

Expenditures for development work.—In the statistics for producing enterprises that part of the expenses for salaries, wages, contract work, supplies and materials, fuel, and power credited to development work is shown as expenditures for development work. For nonproducing enterprises the total of these expenses is given as expenditure for development work.

Quantity of products.—In so far as the statistics on quantities of mineral products in 1919 are available for the states, they will be found in the reports of the United States Geological Survey.

Value of products.—The amounts given under this heading represent the selling value at point of production or f. o. b. at point of shipment, or such other value as may represent the net value or amount received for the 1919 product under the terms by which it was disposed of, and also includes the value at point of production of products used by the operating company.

Cost of mining and profits.—The data do not show entire cost of mining and well operations, and can not be used for the calculation of profits. No account was taken of depreciation or interest; rent of offices and buildings other than those for mines, quarries, and wells; insurance, selling, and other sundry expenses.

Lands controlled.—The inquiry on land tenure was confined to land pertaining to the operations covered by the report. In many of these, however, land held in reserve for future development and for other purposes not pertaining to mining was included and also a large number of more or less unsatisfactory estimates.

Power used.—The figures on power represent the rated capacity of the engines, motors, etc., and not the amount in actual daily use.

Fuel.—Statistics of fuel are shown only for anthracite and bituminous coal, coke, wood, oil, and gas. As only the principal varieties of fuel are shown, no comparison can be made with the total cost.

STATISTICS FOR THE STATE.

Wisconsin, which ranks twenty-fifth among the states in size (land area 55,256 square miles) and thirteenth in population (2,632,067 in 1920), ranked twenty-ninth in value of mineral products in 1919. The state ranked thirty-first in the total number of persons engaged in the mining industries and in the average number of wage earners employed.

The gross amount received for products by operators of mines and quarries in Wisconsin in 1919 was $10,580,833, which was an increase of 41.8 per cent over the corresponding amount reported at the census of 1909. Deducting for 1919 a duplication of $83,802, the value of lead and zinc ores sold by some operators and again reported as product after treatment by others, and for 1909 a similar duplication of $156,000, leaves as net value of products, $10,497,031 for 1919 and $7,303,404 for 1909, an increase of 43.7 per cent. These values include receipts for mineral and other unspecified by-products, custom milling, power sold, and work or miscellaneous services for other enterprises, which amounted to $96,326 in 1919.

The increase in value of products and the increases in capital, wages, cost of supplies and materials and fuel and power, shown in Table 1, are largely due to general price increases during the census interval and are, therefore, not a measure of growth in mining. The decreases in number of enterprises, number of individual mines and quarries operated, and in the persons engaged in the mining industries are augmented by the temporarily adverse industrial conditions in 1919.

The mining industries reported for Wisconsin in 1919, classified according to principal products and listed in order of value of products, were iron ore, lead and zinc, granite, limestone, sandstone, basalt, silica, and barytes. The industries for which statistics can be shown without disclosure of individual operations are ranked by value of products in Table 2.

The leading mining industry in Wisconsin in 1919 was the production of iron ore in Iron, Florence, Dodge, and Sauk Counties. The six enterprises in this industry employed 32.3 per cent of the total number of wage earners and reported products valued at $3,826,872, or 36.2 per cent of the total value of products for the state. Wisconsin ranked fifth among the states in the production of iron ore.

The industry second in importance was lead and zinc mining in Grant, Iowa, and Lafayette Counties. Twenty-three enterprises in this industry employed 30.4 per cent of the total number of wage earners and reported products valued at $3,816,911, or 36.1 per cent of the total value of products for the state. This amount includes receipts for pyrite recovered as a by-product in the treatment of lead and zinc ores and also receipts for custom milling. Wisconsin ranked sixth in value of output from lead and zinc mines.

Granite quarrying was third in importance among the mineral industries in Wisconsin in 1919, and the state ranked fourth in the granite industry. Fourteen granite-quarrying industries employed 21.2 per cent of the total number of wage earners and reported products valued at $1,484,979, or 14 per cent of the total value of products.

The character of organizations conducting mining enterprises in Wisconsin in 1919 is brought out by Table 3, which shows that corporations operated 66.3 per cent of the total number of enterprises, employed 94.3 per cent of the total number of wage earners, and reported products valued at $10,082,080, or 95.3 per cent of the total value of products for the state. The table also shows the preponderance of the corporate form of organization in lead and zinc mining and in the limestone and sandstone-quarrying industries. Similar statistics can not be given for the iron-ore mining industry and the granite-quarrying industry without disclosure of one minor operation in each, conducted by an individual. All other operations in these industries were conducted by corporations.

The relatively large number of small enterprises, as measured by the average number of wage earners employed, is shown in Table 4. Of the total number of mining enterprises in Wisconsin, 89 per cent had no wage earners or fewer than 101 each and the wage earners employed were only 40.5 per cent of the total number of wage earners. On the other hand, only 10.9 per cent of the total number of enterprises had more than 100 wage earners each and these enterprises employed 59.4 per cent of the total number of wage earners. The larger enterprises were in the iron-ore and lead and zinc-mining and the granite-quarrying industries.

Table 5 shows that in two-thirds of the enterprises employing wage earners and for 54 per cent of the wage earners the hours of labor were 54 to 62 per week. In a third of the enterprises and for 46 per cent of the wage earners the hours were 44 to 53 per week. In the iron-mining industry the 8-hour day and 6-day week prevailed. In the lead and zinc-mining industry the 9-hour day and 6-day week prevailed for most of the wage earners, particularly those employed underground, but enterprises reporting these hours for wage earners employed below ground also reported the 10-hour day and 6-day week for a considerable number

of the wage earners employed in reduction mills and otherwise above ground. In the quarrying industries the 10-hour day and 6-day week prevailed.

The statistics for wage earners presented in Table 6, showing changes in the number employed month by month, reflect conditions prevailing in the industries during the census year.

Table 7 presents for 1919 statistics in detail for the state as a whole and for each industry that can be shown without the disclosure of individual operations.

TABLE 1.—COMPARATIVE SUMMARY, PRODUCING ENTERPRISES: 1919 AND 1909.

	MINING INDUSTRIES.		Per cent of increase.[1]		MINING INDUSTRIES.		Per cent of increase.[1]
	1919	1909			1919	1909	
Number of enterprises	92	268	−65.7	Capital	$18,631,034	$11,660,731	59.8
Number of mines and quarries	107	286	−62.6	Principal expenses:			
Persons engaged	3,889	5,194	−25.1	Salaries	618,115	258,472	139.1
Proprietors and firm members, total	48	216	−77.8	Wages	4,750,235	3,081,359	54.2
Number performing manual labor in or about the mines and quarries	19	104	−81.7	Contract work	135,293	40,957	230.3
Salaried employees	294	268	9.7	Supplies and materials [2]	1,969,512	877,925	124.3
Wage earners (average number)	3,547	4,710	−24.7	Fuel and power	857,265	435,993	96.6
Power used (horsepower)	26,766	24,864	7.6	Royalties and rents	535,600	445,146	20.3
				Taxes	235,881	62,755	275.9
				Value of products	10,580,833	7,459,404	41.8

[1] A minus sign (−) denotes decrease.

[2] Includes cost of ore purchased as material.

TABLE 2.—PRINCIPAL INDUSTRIES, PRODUCING ENTERPRISES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.		INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.	
		Average number.	Per cent distribution.	Amount.	Per cent distribution.			Average number.	Per cent distribution.	Amount.	Per cent distribution.
All industries	92	3,547	100.0	$10,580,833	100.0	Granite	14	753	21.2	$1,484,979	14.0
Iron ore	6	1,145	32.3	3,826,872	36.2	Limestone	33	382	10.8	1,107,790	10.5
Lead and zinc	23	1,078	30.4	3,816,911	36.1	Sandstone	12	133	3.7	231,078	2.2
						All other industries [1]	4	56	1.6	113,203	1.1

[1] Includes enterprises in industries as follows: Barytes, 1; basalt, 2; silica, 1.

TABLE 3.—CHARACTER OF ORGANIZATION, FOR SELECTED INDUSTRIES, PRODUCING ENTERPRISES: 1919.

INDUSTRY AND CHARACTER OF ORGANIZATION.	Number of enterprises.	Number of wage earners.	VALUE OF PRODUCTS.		PER CENT DISTRIBUTION.		
			Total.	Per enterprise.	Enterprises.	Wage earners.	Value of products.
ALL INDUSTRIES	92	3,547	$10,580,833	$115,009	100.0	100.0	100.0
Corporation	61	3,344	10,082,080	165,280	66.3	94.3	95.3
Individual	20	133	276,375	13,819	21.7	3.7	2.6
Firm [1]	11	70	222,378	20,216	12.0	2.0	2.1
LEAD AND ZINC	23	1,078	3,816,911	165,953	100.0	100.0	100.0
Corporation	19	1,038	3,676,721	193,512	82.6	96.3	96.3
Firm	4	40	140,190	35,048	17.4	3.7	3.7
LIMESTONE	33	382	1,107,790	33,569	100.0	100.0	100.0
Corporation	15	295	912,657	60,844	45.5	77.2	82.4
Individual	13	66	137,545	10,580	39.4	17.3	12.4
Firm [1]	5	21	57,588	11,518	15.2	5.5	5.2
SANDSTONE	12	133	231,078	19,257	100.0	100.0	100.0
Corporation	7	112	197,358	28,194	58.3	84.2	85.4
Individual [2]	5	21	33,720	6,744	41.7	15.8	14.6

[1] Includes 1 other form of organization.

[2] Includes 1 firm.

TABLE 4.—SIZE OF PRODUCING ENTERPRISES, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.	
	Number.	Per cent distribution.	Number.	Per cent distribution.
ALL INDUSTRIES	92	100.0	3,547	100.0
No wage earners	2	2.2		
1 to 5	27	29.3	61	1.7
6 to 20	27	29.3	310	8.7
21 to 50	20	21.7	614	17.3
51 to 100	6	6.5	454	12.8
101 to 500	10	10.9	2,108	59.4
IRON ORE	6	100.0	1,145	100.0
21 to 50	1	16.7	40	3.5
51 to 100	1	16.7	51	4.5
101 to 500	4	66.7	1,054	92.1
LEAD AND ZINC	23	100.0	1,078	100.0
No wage earners	2	8.7		
1 to 5	3	13.0	11	1.0
6 to 20	4	17.4	41	3.8
21 to 50	10	43.5	320	29.7
51 to 100	1	4.3	95	8.8
101 to 500	3	13.0	611	56.7
GRANITE	14	100.0	753	100.0
1 to 5	4	28.6	13	1.7
6 to 20	3	21.4	32	4.2
21 to 50	1	7.1	22	2.9
51 to 100	3	21.4	243	32.3
101 to 500	3	21.4	443	58.8
LIMESTONE	33	100.0	382	100.0
1 to 5	15	45.5	29	7.6
6 to 20	11	33.3	120	31.4
21 to 50	6	18.2	168	44.0
51 to 100	1	3.0	65	17.0
SANDSTONE	12	100.0	133	100.0
1 to 5	4	33.3	7	5.3
6 to 20	7	58.3	91	68.4
21 to 50	1	8.3	35	26.3

TABLE 5.—NUMBER OF PRODUCING ENTERPRISES AND AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY.	TOTAL.		NUMBER WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—				INDUSTRY.	TOTAL.		NUMBER WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—			
			44 to 53.		54 to 62.					44 to 53.		54 to 62.	
	Enterprises.	Wage earners.	Enterprises.	Wage earners.	Enterprises.	Wage earners.		Enterprises.	Wage earners.	Enterprises.	Wage earners.	Enterprises.	Wage earners.
All industries	[1] 90	3,547	30	1,630	60	1,917	Granite	14	753	8	317	6	436
Iron ore	6	1,145	6	1,145			Limestone	33	382	5	40	28	342
Lead and zinc	21	1,078	7	86	14	992	Sandstone	12	133	2	24	10	109
							All other	4	56	2	18	2	38

[1] Exclusive of 2 enterprises employing no wage earners in the lead and zinc industry.

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES: 1919.

[The month of maximum employment for each industry is indicated by **bold-faced** figures and that of minimum employment by *italic* figures.]

INDUSTRY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries	3,652	3,519	3,426	3,511	3,744	**3,857**	3,812	3,843	3,844	3,719	3,708	3,593	*3,248*	84.2
Producing enterprises	3,547	3,461	3,368	3,452	3,636	**3,720**	3,676	3,712	3,717	3,604	3,606	3,479	*3,153*	84.2
Iron ore	1,145	1,206	1,242	1,211	1,179	1,178	1,131	1,115	1,099	*1,047*	1,108	1,106	1,118	84.3
Lead and zinc	1,078	**1,413**	1,234	1,237	1,118	1,078	986	987	1,040	976	970	980	*917*	64.9
Granite	753	*583*	608	622	767	778	833	849	821	860	854	809	652	67.8
Limestone	382	*178*	187	232	409	487	509	517	501	477	444	377	266	34.4
Sandstone	133	*60*	72	121	131	144	158	168	181	168	151	131	111	33.1
All other industries	56	*21*	25	29	32	55	59	76	75	76	79	76	69	26.6
Nonproducing enterprises	105	*58*	58	59	108	**137**	136	131	127	115	102	114	115	42.3

TABLE 7.—DETAILED STATISTICS FOR MINING INDUSTRIES: 1919.

	Aggregate.	PRODUCING ENTERPRISES.							Nonproducing enterprises.[3]
		Total.	Iron ore.	Lead and zinc.[1]	Granite.	Limestone.	Sandstone.	All other.[2]	
Number of enterprises	96	92	6	23	14	33	12	4	4
Number of mines and quarries	111	107	8	34	16	33	12	4	4
Capital	$19,375,112	$18,631,034	$5,963,604	$7,824,755	$1,790,740	$2,260,160	$341,560	$450,215	$744,078
Principal expenses:									
Salaries and wages—									
Officers	$148,631	$148,351	$7,640	$25,266	$67,427	$42,375	$5,643		$280
Superintendents and managers	$272,847	$256,247	$53,512	$109,061	$37,463	$34,339	$13,072	$8,800	$16,600
Technical employees	$59,481	$57,609	$21,420	$34,234	$1,355	$600			$1,872
Clerks, etc	$158,608	$155,908	$33,602	$60,105	$30,759	$25,863	$3,629	$1,950	$2,700
Wage earners	$4,892,745	$4,750,235	$1,872,621	$1,390,349	$759,599	$533,189	$133,602	$60,875	$142,510
Supplies and materials	$1,914,067	$1,885,710	$496,012	$930,990	$208,146	$158,011	$51,923	$40,628	$28,357
Cost of ore purchased as material	$83,802	$83,802		$83,802					
Fuel	$363,853	$309,187	$155,626	$31,143	$37,817	$70,439	$9,599	$4,563	$54,666
Power	$548,078	$548,078	$60,158	$405,839	$23,748	$48,920	$1,010	$8,403	
Royalties and rents	$543,600	$535,600	$277,815	$233,798	$5,067	$10,897	$8,003	$20	$8,000
Taxes	$239,005	$235,881	$144,568	$41,776	$23,101	$21,094	$3,775	$1,567	$3,124
Contract work	$252,171	$135,293	$31,963	$96,027		$6,253	$1,050		$116,878
Expenditures for development (included in the above items)	$1,009,707	$650,622	$464,154	$149,892	$6,892	$23,614	$6,070		$359,085
Value of products	$10,580,833	$10,580,833	$3,826,872	$3,816,911	$1,484,979	$1,107,790	$231,078	$113,203	
Persons engaged in industry	4,008	3,889	1,194	1,214	798	462	154	67	119
Proprietors and firm members (total)	54	48	1	14	1	23	6	3	6
Number performing manual labor	19	19		13	1	5			
Salaried officers	38	38	1	10	10	15	2		
Superintendents and managers	109	105	11	50	14	18	7	5	4
Technical employees	27	24	9	13	1	1			3
Clerks, etc	128	127	27	49	19	23	6	3	1
Wage earners (average number)	3,652	3,547	1,145	1,078	753	382	133	56	105
Wage earners by occupation (Dec. 15):									
Above ground (total)	[4] 2,293	[4] 2,228	258	484	772	[4] 477	169	68	65
Below ground (total)	1,689	1,627	964	663					62
Foremen, shift bosses, etc.—									
Above ground	70	70	12	10	21	19	4	4	
Below ground	70	65	35	30					5
Enginemen, hoistmen, electricians, mechanics, etc.—									
Above ground	376	361	88	146	58	42	9	18	15
Below ground	84	79	73	6					5
Miners, quarrymen, and drillmen, including their helpers—									
Above ground	643	627	20	18	304	174	94	17	16
Below ground	834	782	585	197					52
Timberman, trackmen, and men engaged in hauling, tramming, etc.—									
Above ground	91	74	20	3	39	12			17
Below ground	335	335	172	163					
Muckers, loaders, laborers, and others not classified—									
Above ground	655	638	116	104	130	219	46	23	17
Below ground	366	366	99	267					
Wage earners employed in mills and beneficiating plants—									
Above ground	458	458	2	203	220	11	16	6	
Number of females included in wage earners reported above—									
Above ground	10	10		10					
Mineral land operated ... acres	12,869	12,064	2,700	6,291	712	1,348	493	520	805
Land controlled, total ... acres	19,975	19,050	2,789	12,333	1,260	1,580	568	520	925
Mineral land owned	6,978	6,938	1,940	2,381	565	1,322	220	510	40
Mineral land leased	5,891	5,126	760	3,910	147	26	273	10	765
Timber and other lands owned and leased	7,106	6,986	89	6,042	548	232	75		120
Power used: Aggregate horsepower	28,246	26,766	6,732	9,758	2,850	5,772	1,009	645	1,480
Prime movers (horsepower, total)	9,184	7,704	2,885	88	1,175	2,472	909	175	1,480
Steam engines—									
Number	104	97	19	2	26	34	10	6	7
Horsepower	8,306	6,971	2,760	30	1,175	2,149	692	165	1,335
Internal-combustion engines—									
Number	21	16		3		8	4	1	5
Horsepower	603	458		58		173	217	10	145
Water wheels and turbines—									
Number	6	6	4			2			
Horsepower	275	275	125			150			
Purchased power (horsepower, total)	19,062	19,062	3,847	9,670	1,675	3,300	100	470	
Electric motors operated by purchased current—									
Number	500	500	45	334	33	73	1	14	
Horsepower	19,062	19,062	3,847	9,670	1,675	3,300	100	470	
Electric motors run by current generated by enterprise using:									
Number	16	14	6		4	4			2
Horsepower	1,480	1,080	385		550	145			400
Fuel used:									
Coal, anthracite ... tons, 2,240 pounds	15	15			15				
Coal, bituminous ... tons, 2,000 pounds	59,518	50,600	26,154	5,050	5,334	12,066	1,196	800	8,918
Coke ... tons, 2,000 pounds	99	99	99						
Wood ... cords	2,128	1,778		42	1,534	202			350
Fuel oils ... barrels	1,950	1,950	288	1,402		100	160		
Gasoline and other volatile oils ... barrels	1,031	929	98	190	1	468	72	100	102

[1] Includes 1 reduction mill operated independently of mines.
[2] Includes enterprises as follows: Barytes, 1; basalt, 2; silica, 1.
[3] Includes enterprises as follows: Iron ore, 2; lead and zinc, 2.
[4] Includes 1 wage earner under 16 years of age.

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