DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

VIRGINIA

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

CONTENTS

	Page.
EXPLANATION OF TERMS	2
GENERAL STATISTICS.	
General character of the state	3
Comparative summary	5
Statistics for the state, by counties	5
Principal industries, ranked by value of products	6
Persons engaged in manufacturing industries	7
Average number of wage earners for selected industries, with per cent, by sex and age	7
Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more	8
Wage earners, by months	8
Wage earners, by months, for selected industries and for cities	9
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities	10
Size of establishments, by average number of wage earners, for selected industries and for cities	12
Size of establishments, by value of products	13
Size of establishments, by value of products, for selected industries	13
Size of establishments, by value of products, for cities of 10,000 inhabitants or more	14
Character of ownership, for selected industries and for cities	15
Manufactures, by population groups, in cities of 10,000 inhabitants or more	16
Comparative summary, Bristol	16
Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state	17
Number and horsepower of types of prime movers	17
Fuel consumed	18
SPECIAL STATISTICS.	
Flour-mill and gristmill products	19
Lumber and timber products	19
Fertilizers	19
Leather, tanned, curried, and finished	19
Iron and steel, blast furnaces	20
Printing and publishing	20
Shipbuilding, including boat building	20
Laundries	20
Dyeing and cleaning	21
Custom sawmills and gristmills	21
GENERAL TABLES.	
Table 31.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909	22
Table 32.—Detailed statement of all industries combined and specified industries: 1919	24

WASHINGTON
GOVERNMENT PRINTING OFFICE
1922

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 bulletin 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.

VIRGINIA.

GENERAL STATISTICS.

General character of the state.—Virginia, one of the original thirteen states, has a gross area of 42,627 square miles, of which 40,262 represent land surface. The inhabitants of the state in 1900 numbered 1,854,184; in 1910, 2,061,612; and in 1920, 2,309,187. In total population Virginia ranked twentieth among the states in 1920. The number of inhabitants per square mile in 1910 was 51.2, the corresponding figure for 1920 being 57.4.

In 1920 there were 11 cities in the state having more than 10,000 inhabitants. (See Table 6.) The combined population of these cities in that year was 550,261, which formed 23.8 per cent of the total for Virginia. Separate statistics of manufactures for Newport News are excluded from all tables in order to avoid the possibility of disclosing the operations of individual establishments in that city. The population of these cities, exclusive of Newport News, represented 22.3 per cent of the population of the state, and they reported 52.2 per cent of the value of the state's manufactured products in 1919.

Importance and growth of manufactures (Table 1).—The increases in salaries and wages, cost of materials, and the value of products, from 1914 to 1919, as presented in Table 1, are largely due to the change 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 number of wage earners and horsepower are indicative of a decided growth in the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures for county totals prior to 1919 are not available, and therefore comparison can not be made. Cities in Virginia are independent of the counties; they have been included in the table, however, each combined with its contiguous county, except Newport News, which is included in "All other counties," to avoid disclosing the operations of individual establishments in that city. Of the 100 counties and 20 independent cities in the state, Henrico County and Richmond city combined, reported 24.8 per cent of the total value of the state's manufactured products in 1919, and 18.8 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 often misleading as to their real importance from a manufacturing standpoint. The industry of grading, roasting, cleaning, and shelling peanuts, for instance, which ranked sixth in value of products, ranked eighteenth in number of wage earners and twenty-first in 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 32.

Average number of wage earners, by selected industries (Table 5).—The industries covered by this table are those which employed more than 500 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).—In most of the detail figures for the cities, increases are shown from 1914 to 1919. The decrease in wage earners in Norfolk is due principally to the disappearance of an establishment manufacturing lumber and timber products in that city in 1914. Changes in the 1914 figures, as published for that year, are due to the fact that certain establishments that were located outside the corporate limits of the city were improperly included in the city totals for that year.

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 three census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to showing the number of wage earners employed by months for selected industries, similar data are given for males and females for all industries combined for the state and for each city, except Newport News, having 10,000 inhabitants or more. The number of female wage earners is also presented for the industries that employed a large number of females. The 10 cities combined reported a larger proportion of female wage earners than the state as a whole, 26.3 per cent as compared with 16.8 per cent for the state.

Prevailing hours of labor (Table 9).—There has been a marked shortening of the working day in Virginia since 1914. In that year only 7 per cent of the wage earners were included in the group "48 and under," as against 35.4 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 54.8 per cent of the total wage earners as compared with 23 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, 96.2 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 35.1 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 3.8 per cent of the total number of manufacturing establishments in the state, but reported 64.9 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" constituted 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 in the case of 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 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 24.6 per cent of the number of establishments in the state in 1919, they reported 85 per cent of the average number of wage earners and 87.1 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 24,442, or 31.7 per cent, and the value of products $347,945,767, or 163.6 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the number of establishments in these cities in 1919, exclusive of Newport News, represented 22.4 per cent of the total reported for the state. They reported in that year 47.8 per cent of the wage earners and 52.2 per cent of the value of products.

Manufactures in Bristol, Va., and Bristol, Tenn. (Table 16).—The city of Bristol, located partly in Virginia and partly in Tennessee, had a combined population of over 10,000 in 1920, 8,047 in Tennessee and 6,729 in Virginia. The principal industries in Bristol, Va., in 1919 were paper and wood pulp; flour-mill and gristmill products; men's clothing; leather, tanned, curried, and finished; and lumber and timber products; while the principal industries in Bristol, Tenn. were flour-mill and gristmill products; men's clothing; knit goods; and druggists' preparations.

Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state (Table 17).—This table includes all industries reporting products of $300,000 and over in Portsmouth, $500,000 and over in Norfolk and Roanoke, and $1,000,000 and over in Richmond, the figures being given for those which can be shown without disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 18).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 82,379 horsepower, or 24.4 per cent. The increase for rented power was much greater than that for owned power, being 77,884 horsepower, or 209.7 per cent, as compared with 4,495 horsepower, or 1.5 per cent, for owned power.

Fuel consumed (Table 19).—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. Totals for the various cities, except for Newport News, are also given. There was a decided increase in the quantities of each of the several kinds of fuel used in 1919 as compared with 1914. Of the bituminous coal reported, the coke industry consumed 45.9 per cent; iron and steel furnaces consumed 79.6 per cent of the coke; while 49.2 per cent of the fuel oils was used in the manufacture of gas.

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	5,603	5,508	5,685	3,187	3,186	1.7	−3.1	78.4	(2)
Persons engaged	139,178	118,109	120,797	88,898	(3)	17.8	−2.2	35.9	.....
Proprietors and firm members	5,900	6,125	6,570	3,643	(3)	−3.7	−6.8	80.3	.....
Salaried employees	13,926	9,164	8,551	4,970	3,828	52.0	7.2	72.1	29.8
Wage earners (average number)	119,352	102,820	105,676	80,285	66,223	16.1	−2.7	3.16	21.2
Primary horsepower	419,946	337,567	283,928	176,998	136,696	24.4	18.9	60.4	29.5
Capital	$463,644,498	$261,501,288	$216,392,388	$147,989,182	$92,299,589	77.3	20.8	46.2	60.3
Salaries and wages	145,914,536	56,118,282	47,255,356	32,817,864	23,903,498	160.0	18.8	44.0	37.3
Salaries	25,908,084	11,244,847	9,100,790	4,874,806	3,629,609	130.4	23.6	86.7	34.3
Wages	120,006,452	44,873,435	38,154,566	27,943,058	20,273,889	167.4	17.6	36.5	37.8
Paid for contract work	2,848,581	1,893,922	1,713,523	711,771	(3)	50.4	10.5	140.7	.....
Rent and taxes	36,445,834	9,373,527	6,751,151	[4] 857,071	(3)	288.8	38.8	.....	.....
Cost of materials	371,540,833	155,319,576	125,582,687	83,649,149	59,359,484	139.2	23.7	50.1	40.9
Value of products	643,511,621	264,039,041	219,793,858	148,856,525	108,644,150	143.7	20.1	47.7	37.0
Value added by manufacture [5]	271,970,788	108,719,465	94,211,171	65,207,376	49,284,666	150.2	15.4	44.5	32.3

[1] A minus sign (−) denotes decrease. [2] Less than one-tenth of 1 per cent. [3] Figures not available.
[4] Exclusive of internal revenue. [5] 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	5,603	119,352	$120,006,452	$36,445,834	$371,540,833	$643,511,621	$271,970,788	419,946
Accomac	88	595	472,726	80,462	1,160,549	2,097,052	936,503	3,263
Albemarle and Charlottesville city	99	788	831,219	68,273	2,250,781	3,825,918	1,575,137	2,860
Alleghany and Clifton Forge city	64	2,704	2,926,433	419,045	11,347,796	17,004,137	5,656,341	20,137
Amelia	27	168	110,732	1,382	151,741	406,323	254,582	673
Amherst	31	285	183,364	49,030	740,279	1,387,869	647,590	1,062
Appomattox	20	49	35,654	433	108,495	208,993	100,498	484
Arlington and Alexandria city	55	4,683	6,155,091	259,783	16,690,857	27,638,093	10,947,836	7,359
Augusta and Staunton city	170	1,895	1,488,380	191,866	7,572,714	11,920,103	4,347,389	9,939
Bath	30	190	106,402	8,171	187,967	367,536	179,569	1,159
Bedford	170	813	517,938	222,163	2,506,524	3,919,798	1,413,274	4,082
Bland	20	129	101,461	600	89,952	340,439	250,487	681
Botetourt	157	693	382,446	34,039	2,040,838	2,975,781	934,943	4,459
Brunswick	47	532	471,604	12,703	830,331	1,644,603	814,272	1,968
Buchanan	16	569	743,762	57,237	405,520	1,527,546	1,122,026	1,732
Buckingham	35	402	289,999	12,543	119,515	597,986	478,471	1,278
Campbell and Lynchburg city	111	5,368	5,350,375	1,306,842	19,047,797	32,342,566	13,294,769	13,422
Caroline	48	229	168,188	2,197	463,690	874,576	410,886	1,726
Carroll	42	193	135,190	4,303	465,275	645,754	180,479	1,166
Charles City	6	78	46,042	188	31,659	94,046	62,387	287
Charlotte	56	203	149,654	2,246	136,937	522,623	385,686	1,502
Chesterfield	47	472	368,346	53,800	1,178,199	1,857,645	679,446	3,132
Clarke	14	26	20,350	1,040	228,798	286,962	58,164	197
Craig	18	31	26,250	1,100	66,584	135,143	68,559	329
Culpeper	30	167	107,450	7,755	838,767	1,181,725	342,958	724
Cumberland	23	55	41,627	1,942	146,951	268,112	121,161	485
Dickenson	20	495	620,071	34,404	258,776	1,234,124	975,348	1,785
Dinwiddie and Petersburg city	144	5,375	4,177,340	908,259	19,191,695	27,991,796	8,800,101	9,378
Elizabeth City	27	304	319,778	18,255	773,657	1,229,345	455,688	1,132
Essex	19	87	44,720	346	70,011	210,079	140,068	307
Fairfax	30	83	71,792	4,134	184,337	356,279	171,942	785
Fauquier	47	128	112,759	4,051	303,956	552,358	248,402	940
Floyd	33	19	8,535	1,040	179,905	266,248	86,343	626
Fluvanna	52	204	93,257	1,862	204,669	427,276	222,607	934
Franklin	85	268	176,481	13,627	614,718	1,128,015	513,297	1,460
Frederick and Winchester city	79	839	671,838	186,943	2,961,231	4,567,012	1,605,781	3,836
Giles	27	456	443,487	20,746	2,583,849	3,529,014	945,165	2,862
Gloucester	26	70	44,087	776	76,606	179,357	102,751	525
Goochland	41	201	155,392	1,749	58,820	317,718	258,898	995
Greene	18	36	28,406	301	30,761	95,215	64,454	344
Greensville	30	580	445,269	101,617	1,133,280	2,267,790	1,134,510	2,703
Halifax	29	270	211,623	35,730	1,031,093	1,553,399	522,306	960
Hanover	36	176	126,393	2,319	285,531	576,808	291,277	941
Henrico and Richmond city	564	22,459	20,405,844	19,103,926	91,110,423	159,693,065	68,582,642	42,489
Henry	38	1,084	748,304	296,530	1,739,898	3,757,409	2,017,511	4,565
Highland	13	8	5,000	336	46,531	77,550	31,019	180
Isle of Wight	24	694	525,066	19,694	1,482,854	3,145,896	1,663,042	2,079
James City	26	185	141,095	3,228	115,616	350,139	234,523	973
King and Queen	46	220	142,471	1,006	142,912	453,869	310,957	964
King George	21	61	36,048	1,054	95,970	183,830	87,860	394
King William	33	628	608,030	85,745	599,547	2,675,953	2,076,406	1,695
Lancaster	53	468	465,384	16,118	656,295	1,450,311	794,016	2,740
Lee	39	274	219,820	4,550	184,987	533,861	348,874	996
Loudoun	45	98	87,553	4,790	425,002	633,419	208,417	922
Louisa	74	261	194,675	2,626	250,626	680,369	429,743	1,180
Lunenburg	34	352	464,605	2,540	421,887	1,073,493	651,606	1,043

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

COUNTY.	Number of establishments.	WAGE EARNERS. Average number.	WAGE EARNERS. Wages.	Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horsepower.
Madison	42	47	$33,110	$1,046	$217,090	$322,598	$105,508	864
Mathews	16	70	37,746	662	49,942	119,821	69,879	211
Mecklenburg	68	575	436,929	116,624	1,563,845	2,883,733	1,319,888	2,750
Middlesex	28	210	108,114	1,266	263,563	491,233	227,670	98
Montgomery and Radford city	77	974	895,669	120,759	2,555,849	4,411,472	1,855,623	6,061
Nansemond and Suffolk city	70	2,463	1,622,651	249,954	14,399,863	18,471,499	4,071,636	8,522
Nelson	29	707	557,726	12,380	324,550	967,429	642,879	2,287
New Kent	15	111	86,524	398	61,718	216,407	154,689	565
Norfolk and Norfolk and Portsmouth cities	311	12,278	14,053,097	2,097,966	49,929,427	81,909,488	31,980,061	43,576
Northampton	34	534	646,223	12,381	704,454	1,667,709	963,255	1,589
Northumberland	59	821	743,231	110,532	1,168,721	2,513,591	1,344,870	9,186
Nottoway	37	547	624,078	15,998	697,154	1,626,942	929,788	2,287
Orange	39	156	117,560	4,873	606,943	867,755	260,812	986
Page	48	627	620,456	75,332	3,209,351	4,192,015	982,664	1,204
Patrick	27	49	38,229	1,795	123,180	222,285	99,105	582
Pittsylvania and Danville city	68	5,940	5,691,668	2,867,017	16,764,765	30,944,848	14,180,083	30,516
Powhatan	18	104	76,305	2,558	85,259	214,423	129,164	636
Prince Edward	36	214	136,171	3,648	565,667	870,179	304,512	1,095
Prince George and Hopewell city	10	136	108,458	9,119	234,278	468,227	233,949	357
Prince William	46	102	79,201	4,311	273,325	447,984	174,659	822
Princess Anne	9	69	65,006	1,673	62,534	200,183	137,649	373
Pulaski	42	658	726,640	90,494	2,893,401	4,354,736	1,461,335	8,836
Rappahannock	27	64	40,801	1,713	130,764	229,734	98,970	505
Richmond	44	218	126,281	3,787	219,080	470,649	251,569	834
Roanoke and Roanoke city	159	8,421	9,371,704	3,258,081	16,826,110	37,109,175	20,283,065	15,758
Rockbridge and Buena Vista city	90	1,012	856,105	330,535	3,814,779	5,823,644	2,008,865	8,395
Rockingham and Harrisonburg city	151	870	650,564	143,349	6,898,166	8,871,304	1,973,138	4,088
Russell	38	458	416,430	36,490	494,657	1,138,606	643,949	1,241
Scott	27	490	372,594	11,072	244,504	793,135	548,631	2,206
Shenandoah	81	366	305,961	62,081	2,024,454	2,870,225	845,771	2,098
Smyth	40	1,545	1,571,124	55,245	3,375,687	5,622,649	2,246,962	10,257
Southampton	36	617	494,340	59,057	2,726,196	3,572,539	846,343	2,157
Spotsylvania and Fredericksburg city	95	859	579,792	37,895	1,386,362	2,673,449	1,287,087	2,428
Stafford	20	62	43,339	206	44,113	161,137	117,024	295
Sussex	33	632	410,469	13,686	1,250,802	2,046,649	795,847	1,704
Tazewell	63	370	298,360	26,526	1,104,210	1,791,756	687,546	2,376
Warren	37	324	208,254	7,934	696,730	1,434,780	738,050	2,084
Washington and Bristol city	80	2,249	2,192,363	274,168	6,886,492	12,039,913	5,153,421	9,424
Westmoreland	46	187	97,886	3,475	450,325	560,020	109,695	836
Wise	62	1,623	1,873,082	254,054	6,117,655	9,632,164	3,514,509	5,831
Wythe	52	387	352,478	118,391	1,963,186	2,953,912	990,726	2,657
York	10	20	17,597	326	24,547	66,896	42,349	148
All other counties [1]	106	13,486	19,196,330	2,269,532	22,083,176	50,001,802	27,918,626	46,382

[1] All other counties comprise Grayson, Surry, and Warwick Counties, and city of Newport News.

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

INDUSTRY.	Number of establishments.	WAGE EARNERS. Average number.	WAGE EARNERS. Per cent distribution.	VALUE OF PRODUCTS. Amount (expressed in thousands).	VALUE OF PRODUCTS. Per cent distribution.	VALUE ADDED BY MANUFACTURE. Amount (expressed in thousands).	VALUE ADDED BY MANUFACTURE. Per cent distribution.
All industries	5,603	119,352	100.0	$643,512	100.0	$271,971	100.0
Tobacco, cigars and cigarettes	49	7,335	6.1	63,273	9.8	26,799	9.9
Flour-mill and gristmill products	537	937	0.8	36,154	5.6	5,226	1.9
Lumber and timber products	1,931	15,960	13.4	35,389	5.5	24,724	9.1
Cars and general shop construction and repairs by steam-railroad companies	31	12,086	10.1	32,777	5.1	18,444	6.8
Cotton goods	10	6,518	5.5	32,535	5.1	14,991	5.5
Peanuts, grading, roasting, cleaning, and shelling	28	1,528	1.3	23,162	3.6	3,113	1.1
Fertilizers	43	2,354	2.0	22,891	3.6	8,693	3.2
Leather, tanned, curried and finished	21	1,666	1.4	21,591	3.4	5,375	2.0
Tobacco, chewing and smoking	14	2,078	1.7	15,077	2.3	5,939	2.2
Paper and wood pulp	10	1,951	1.6	13,602	2.1	5,807	2.1
Chemicals	12	1,847	1.5	12,765	2.0	9,060	3.3
Clothing, men's	28	2,305	1.9	11,810	1.8	4,940	1.8
Lumber, planing-mill products, not including planing mills connected with sawmills	145	2,039	1.7	11,773	1.8	4,129	1.5
Bread and other bakery products	125	1,262	1.1	11,002	1.7	3,983	1.5
Food preparations, not elsewhere specified	22	245	0.2	10,205	1.6	936	0.3
Iron and steel, blast furnaces	12	1,081	0.9	10,098	1.6	1,828	0.7
Dyestuffs and extracts—natural	17	1,002	0.8	$9,426	1.5	$4,493	1.7
Boxes, wooden packing, except cigar boxes	34	2,534	2.1	9,232	1.4	3,312	1.2
Trunks and valises	15	1,703	1.4	8,618	1.3	4,482	1.6
Slaughtering and meat packing	25	502	0.4	7,589	1.2	1,362	0.5
Printing and publishing, book and job	174	1,695	1.4	7,028	1.1	4,610	1.7
Confectionery and ice cream	76	855	0.7	6,692	1.0	2,681	1.0
Foundry and machine-shop products	86	1,706	1.4	6,352	1.0	4,258	1.6
Printing and publishing, newspapers and periodicals	197	964	0.8	5,998	0.9	3,913	1.4
Coke, not including gas-house coke	13	849	0.7	5,524	0.9	1,589	0.6
Furniture	38	1,296	1.1	5,043	0.8	2,495	0.9
Bags, other than paper, not including bags made in textile mills	13	441	0.4	4,841	0.8	615	0.2
Knit goods	10	1,578	1.3	4,685	0.7	1,782	0.7
Shipbuilding, wooden, including boat building	30	1,159	1.0	4,582	0.7	3,562	1.3
Canning and preserving, fruits and vegetables	473	1,836	1.5	4,427	0.7	1,281	0.5
Mineral and soda waters	100	427	0.4	4,340	0.7	1,914	0.7
Carriages and wagons, including repairs	63	777	0.7	4,054	0.6	1,839	0.7
Ice, manufactured	106	969	0.8	3,965	0.6	2,767	1.0

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

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.
Structural ironwork, not made in steel works or rolling mills	7	791	0.7	$3,807	0.6	$2,197	0.8
Tinware, not elsewhere specified	8	572	0.5	3,447	0.5	942	0.3
Coffee, roasting and grinding	11	104	0.1	3,228	0.5	586	0.2
Gas, illuminating and heating	17	475	0.4	3,149	0.5	1,693	0.6
Brick, sewer pipe, and draintile	45	1,331	1.1	2,738	0.4	1,888	0.7
Woolen goods	12	630	0.5	2,693	0.4	1,155	0.4
Grease and tallow, not including lubricating greases	7	251	0.2	2,429	0.4	742	0.3
Cooperage, hogsheads and barrels	100	661	0.6	2,209	0.3	763	0.3
Lime	37	750	0.6	1,875	0.3	1,145	0.4
Patent medicines and compounds	39	301	0.3	1,872	0.3	1,009	0.4
Boxes, paper and other, not elsewhere specified	16	631	0.5	1,708	0.3	857	0.3
Automobile repairing	116	376	0.3	$1,641	0.3	$840	0.3
Silk goods, including throwsters	10	661	0.6	1,551	0.2	942	0.3
Minerals and earths, ground or otherwise treated	18	752	0.6	1,543	0.2	1,113	0.4
Butter	20	94	0.1	1,535	0.2	430	0.2
Saddlery and harness	33	225	0.2	1,504	0.2	619	0.2
Stoves and ranges	5	334	0.3	1,396	0.2	857	0.3
Vinegar and cider	11	160	0.1	1,227	0.2	314	0.1
Paving materials	24	586	0.5	1,208	0.2	779	0.3
Marble and stone work	66	441	0.4	1,149	0.2	664	0.2
Paints	10	104	0.1	1,142	0.2	428	0.2
Copper, tin, and sheet-iron work	39	229	0.2	1,109	0.2	647	0.2
All other industries [1]	455	27,408	23.0	132,852	20.7	60,419	22.2

[1] Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Boots and shoes"; "iron and steel, steel works and rolling mills"; "locomotives, not made by railroad companies"; "oil and cake, cottonseed"; and "shipbuilding, steel, new vessels."

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

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.
All classes	1919	139,178	116,820	22,358	83.9	16.1
	1914	118,109	101,382	16,727	85.8	14.2
	1909	120,797	104,662	16,135	86.6	13.4
Proprietors and officials	1919	12,039	11,831	208	98.3	1.7
	1914	9,415	9,284	131	98.6	1.4
	1909	9,906	9,783	123	98.8	1.2
Proprietors and firm members	1919	5,900	5,785	115	98.1	1.9
	1914	6,125	6,026	99	98.4	1.6
	1909	6,570	6,469	101	98.5	1.5
Salaried officers of corporations	1919	1,766	1,712	54	96.9	3.1
	1914	1,174	1,149	25	97.9	2.1
	1909	1,139	1,128	11	99.0	1.0
Superintendents and managers	1919	4,373	4,334	39	99.1	0.9
	1914	2,116	2,109	7	99.7	0.3
	1909	2,197	2,186	11	99.5	0.5
Clerks and other subordinate salaried employees.	1919	7,787	5,636	2,151	72.4	27.6
	1914	5,874	4,744	1,130	80.8	19.2
	1909	5,215	4,333	882	83.1	16.9
Wage earners (average number)	1919	119,352	99,353	19,999	83.2	16.8
	1914	102,820	87,354	15,466	85.0	15.0
	1909	105,676	90,546	15,130	85.7	14.3
16 years of age and over	1919	117,847	98,547	19,300	83.6	16.4
	1914	100,209	85,674	14,535	85.5	14.5
	1909	102,054	88,191	13,863	86.4	13.6
Under 16 years of age	1919	1,505	806	699	53.6	46.4
	1914	2,611	1,680	931	64.3	35.7
	1909	3,622	2,355	1,267	65.0	35.0

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.		Under 16 years of age.
			Male.	Female.	
All industries	1919	119,352	82.6	16.2	1.3
	1914	102,820	83.3	14.1	2.5
	1909	105,676	83.5	13.1	3.4
Boxes, paper and other, not elsewhere specified.	1919	631	44.7	51.8	3.5
	1914	499	35.7	62.3	2.0
Boxes, wooden packing, except cigar boxes	1919	2,534	81.4	17.5	1.1
	1914	1,989	75.6	15.9	8.5
Bread and other bakery products	1919	1,262	81.5	17.3	1.2
	1914	1,033	86.4	12.1	1.5
Brick, sewer pipe, and draintile	1919	1,331	100.0	.....	.....
	1914	1,663	97.7	.....	2.3
Canning and preserving, fruits and vegetables	1919	1,836	34.3	61.0	4.7
	1914	1,793	29.8	53.7	16.5
Carriages and wagons, including repairs	1919	777	97.9	1.8	0.3
	1914	1,066	99.2	0.4	0.5
Cars and general shop construction and repairs by steam-railroad companies.	1919	12,086	99.6	0.4	.....
	1914	10,375	99.9	0.1	.....
Chemicals	1919	1,847	83.0	16.5	0.5
	1914	644	98.3	1.7	.....
Clothing, men's	1919	2,305	10.8	87.6	1.6
	1914	1,224	11.7	87.4	0.9
Coke, not including gas-house coke	1919	849	100.0	.....	.....
	1914	852	100.0	.....	.....
Confectionery and ice cream	1919	855	67.4	32.6	.....
	1914	617	62.2	37.1	0.6
Cooperage, hogsheads and barrels	1919	661	81.7	18.2	0.2
	1914	1,390	88.8	8.4	2.8
Cotton goods	1919	6,518	63.3	34.2	2.5
	1914	6,310	65.0	30.6	4.4
Dyestuffs and extracts—natural	1919	1,002	100.0	.....	.....
	1914	429	98.8	.....	1.2
Fertilizers	1919	2,354	98.0	2.0	.....
	1914	2,470	99.9	.....	0.1
Flour-mill and gristmill products	1919	937	99.5	0.2	.2
	1914	1,082	99.7	0.2	0.1
Foundry and machine-shop products [1]	1919	1,724	99.5	0.1	0.3
	1914	963	99.7	0.1	0.2

[1] Includes "iron and steel, welding."

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

INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL. 16 years of age and over. Male.	Female.	Under 16 years of age.
Furniture	1919	1,296	89.3	5.0	5.7
	1914	1,221	93.1	0.3	6.6
Glass	1919	641	82.7	16.7	0.6
	1914	606	92.4	3.3	4.3
Ice, manufactured	1919	969	99.0	0.6	0.4
	1914	714	97.6	.....	2.4
Iron and steel, blast furnaces	1919	1,081	99.7	.....	0.3
	1914	689	99.7	.....	0.3
Knit goods	1919	1,578	26.9	66.4	6.7
	1914	2,272	34.8	53.9	11.3
Leather, tanned, curried, and finished	1919	1,666	99.6	0.3	0.1
	1914	1,205	96.8	3.1	0.2
Lime	1919	750	97.6	.....	2.4
	1914	694	100.0	.....	.....
Lumber and timber products	1919	15,960	99.3	0.5	0.2
	1914	22,100	99.2	0.1	0.8
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	2,039	99.4	0.5	0.1
	1914	2,216	97.7	(1)	2.3
Minerals and earths, ground or otherwise treated.	1919	752	99.6	.....	0.4
	1914	75	98.7	1.3	.....
Paper and wood pulp	1919	1,951	92.9	7.1	.....
	1914	1,260	92.5	7.5	.....
Paving materials	1919	586	100.0	.....	.....
	1914	642	99.7	.....	0.3
Peanuts, grading, roasting, cleaning, and shelling.	1919	1,528	37.6	61.8	0.7
	1914	1,505	21.1	76.8	2.1
Printing and publishing, book and job	1919	1,695	61.6	31.2	7.2
	1914	1,452	71.6	26.3	2.1
Printing and publishing, newspapers and periodicals.	1919	964	84.3	9.9	5.8
	1914	969	82.4	13.5	4.1
Shipbuilding, wooden, including boat building.	1919	1,159	99.9	0.1	.....
	1914	447	100.0	.....	.....
Silk goods, including throwsters	1919	661	31.9	61.6	6.5
	1914	691	30.8	51.5	17.7
Slaughtering and meat packing	1919	502	93.6	6.4	.....
	1914	396	93.2	6.3	0.5
Structural ironwork, not made in steel works or rolling mills.	1919	791	99.9	0.1	.....
	1914	617	99.7	0.3	.....
Tinware, not elsewhere specified	1919	572	78.5	21.3	0.2
	1914	360	75.3	19.2	5.6
Tobacco, chewing and smoking	1919	2,078	52.6	46.5	0.8
	1914	1,695	52.2	44.1	3.7
Tobacco, cigars and cigarettes	1919	7,335	30.9	65.1	4.0
	1914	4,613	27.6	67.4	5.0
Trunks and valises	1919	1,703	88.5	10.6	0.9
	1914	1,174	86.1	4.8	9.1
Woolen goods	1919	630	69.1	30.3	0.6
	1914	431	72.2	25.1	2.8
All other industries	1919	30,956	91.1	7.8	1.0
	1914	20,377	88.3	9.4	2.3

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

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.[1]	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES. Total. 1919	1914	1909	16 years of age and over. Male. 1919	1914	1909	Female. 1919	1914	1909	Under 16 years of age. 1919	1914	1909	VALUE OF PRODUCTS. 1919	1914	1909
Alexandria	4,012	1,504	1,470	3,849	1,390	1,331	69	82	69	94	32	70	$16,908,023	$3,660,291	$4,419,562
Charlottesville	450	.....	.....	365	.....	.....	85	.....	.....	.....	.....	.....	1,923,944	.....	.....
Danville	5,827	2,691	3,076	3,567	1,751	1,712	2,121	840	1,086	139	100	278	30,183,494	5,558,431	5,389,430
Lynchburg	4,486	3,474	4,026	2,633	2,373	2,801	1,709	995	968	144	106	257	27,449,656	9,918,779	10,188,136
Norfolk	5,119	5,263	4,749	3,822	4,062	3,518	1,258	1,148	1,073	39	53	158	29,587,662	13,710,487	10,341,321
Petersburg	4,891	3,903	3,887	3,191	2,248	2,434	1,570	1,438	1,271	130	217	182	26,440,199	12,609,943	8,895,552
Portsmouth	2,237	767	842	1,939	582	678	285	156	130	13	29	34	9,376,179	1,730,657	1,527,997
Richmond	21,759	17,282	14,849	15,037	12,728	10,010	6,340	4,171	4,538	382	383	301	156,724,322	62,490,667	47,357,985
Roanoke	7,740	5,496	3,544	6,850	5,244	3,312	833	246	201	57	6	31	34,864,211	16,581,988	7,260,859
Staunton	473	346	339	239	235	216	218	93	113	16	18	10	2,566,548	1,448,216	1,222,846

[1] Statistics for Newport News are omitted to avoid disclosure of individual operations.

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

MONTH.	NUMBER.[1] 1919	1914	1909	PER CENT OF MAXIMUM. 1919	1914	1909	MONTH.	NUMBER.[1] 1919	1914	1909	PER CENT OF MAXIMUM. 1919	1914	1909
January	*111,943*	100,795	*94,885*	84.9	92.8	81.8	July	116,759	102,697	104,231	88.5	94.6	89.9
February	112,177	101,063	97,714	85.0	93.1	84.2	August	125,148	103,418	110,659	94.9	95.2	95.4
March	112,455	103,802	101,750	85.2	95.6	87.7	September	131,680	108,590	115,998	99.8	100.0	100.0
April	113,802	106,175	104,393	86.3	97.8	90.0	October	**131,916**	106,016	112,276	100.0	97.6	96.8
May	112,572	105,902	104,865	85.3	97.5	90.4	November	125,549	96,944	109,216	95.2	89.3	94.2
June	113,536	104,916	105,036	86.1	96.6	90.5	December	124,687	*93,522*	107,002	94.5	86.1	92.3

[1] The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum 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 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	119,352	*111,943*	112,177	112,455	113,802	112,572	113,536	116,759	125,148	131,680	131,916	125,549	124,687	84.9
Males	99,353	*94,210*	94,221	94,935	96,009	94,738	95,380	98,039	102,085	106,809	107,550	104,250	104,010	87.6
Females	19,999	17,733	17,956	*17,520*	17,793	17,834	18,156	18,720	23,063	24,871	24,366	21,299	20,677	70.4
Boxes, paper and other, not elsewhere specified	631	629	628	598	*578*	597	599	623	628	650	669	684	689	83.9
Boxes, wooden packing, except cigar boxes	2,534	2,427	2,445	2,440	2,513	2,576	2,503	2,616	*2,253*	2,649	2,713	2,629	2,644	83.0
Bread and other bakery products	1,262	1,138	*1,122*	1,143	1,260	1,271	1,275	1,298	1,320	1,305	1,326	1,339	1,347	83.3
Brick, sewer pipe, and draintile	1,331	*899*	930	1,002	1,224	1,329	1,455	1,559	1,614	1,663	1,615	1,420	1,262	54.1
Canning and preserving, fruits and vegetables	1,836	*2*	32	41	96	94	89	552	6,857	7,188	5,970	1,027	84	(1)
Carriages and wagons, including repairs	777	797	760	697	*696*	717	733	779	782	811	832	854	866	80.4
Cars and general shop construction and repairs by steam-railroad companies	12,086	12,816	12,776	11,171	11,568	11,434	*11,090*	11,585	11,864	12,484	12,558	12,664	13,022	85.2
Chemicals	1,847	1,765	1,769	*1,544*	1,550	1,745	1,739	1,827	2,004	2,032	2,075	2,118	1,996	72.9
Clothing, men's	2,305	*1,890*	1,973	2,044	2,148	2,139	2,279	2,371	2,486	2,407	2,626	2,636	2,661	71.0
Coke, not including gas-house coke	849	929	907	870	797	*774*	845	794	821	840	826	893	892	83.3
Confectionery and ice cream	855	*762*	775	817	840	877	905	901	923	936	880	785	859	81.4
Cooperage, hogsheads and barrels	661	537	*527*	555	605	685	744	732	733	793	778	689	554	66.5
Cotton goods	6,518	*6,072*	6,124	6,175	6,364	6,480	6,531	6,596	6,722	6,794	6,636	6,851	6,871	88.4
Dyestuffs and extracts—natural	1,002	1,015	1,010	974	*925*	1,000	1,015	1,060	1,044	1,015	1,015	983	968	87.3
Fertilizers	2,354	1,936	1,969	2,600	3,029	2,113	2,386	2,527	2,362	2,562	2,566	2,357	*1,841*	60.8
Flour-mill and gristmill products	937	904	905	905	*891*	902	900	937	971	994	992	976	967	89.6
Foundry and machine-shop products	1,706	1,888	1,785	1,734	1,655	*1,294*	1,519	1,691	1,680	1,649	1,779	1,864	1,934	66.9
Furniture	1,296	*1,133*	1,138	1,151	1,157	1,210	1,261	1,366	1,389	1,408	1,418	1,434	1,487	76.2
Glass	641	*524*	525	638	660	692	692	700	593	644	670	670	684	74.9
Ice, manufactured	969	659	*641*	724	864	1,032	1,212	1,459	1,231	1,199	1,053	822	732	43.9
Iron and steel, blast furnaces	1,081	1,748	1,604	1,508	1,309	1,106	*687*	775	807	831	867	869	861	39.3
Knit goods	1,578	1,214	*1,207*	1,249	1,417	1,437	1,606	1,759	1,789	1,806	1,804	1,831	1,817	65.9
Leather, tanned, curried, and finished	1,666	*1,494*	1,498	1,557	1,549	1,647	1,756	1,791	1,819	1,716	1,708	1,729	1,728	82.1
Lime	750	704	*684*	760	854	809	706	712	768	792	712	728	771	80.1
Lumber and timber products	15,960	13,255	*13,165*	15,280	14,553	14,292	13,832	14,172	15,009	17,533	19,768	19,580	21,081	62.4
Lumber, planing-mill products, not including planing mills connected with sawmills	2,039	*1,736*	1,789	1,796	1,878	1,987	2,044	2,136	2,182	2,201	2,218	2,269	2,232	76.5
Minerals and earths, ground or otherwise treated	752	660	*636*	679	698	741	726	847	849	851	824	795	718	74.7
Paper and wood pulp	1,951	1,919	*1,735*	1,869	1,931	1,873	1,945	1,992	2,006	2,046	2,029	2,030	1,987	87.2
Paving materials	586	429	*408*	429	611	687	689	698	673	643	626	602	537	58.5
Peanuts, grading, roasting, cleaning, and shelling	1,528	1,616	1,639	1,628	1,576	1,626	1,573	1,445	1,502	1,363	*1,060*	1,438	1,870	56.7
Printing and publishing, book and job	1,695	1,670	*1,663*	1,664	1,673	1,675	1,679	1,692	1,699	1,716	1,733	1,748	1,730	95.2
Printing and publishing, newspapers and periodicals	964	930	*921*	936	942	949	968	979	974	974	993	1,001	1,001	92.0
Shipbuilding, wooden, including boat building	1,159	1,631	1,707	1,285	1,314	1,111	1,117	1,139	1,017	932	950	*808*	902	47.0
Silk goods, including throwsters	661	629	663	670	650	634	*591*	597	681	699	689	697	732	80.7
Slaughtering and meat packing	502	569	578	532	454	459	447	443	484	520	588	*440*	510	74.8
Structural ironwork, nor made in steel works or rolling mills	791	963	844	782	830	832	788	872	799	767	768	649	*598*	62.1
Tinware, not elsewhere specified	572	646	614	525	*497*	518	527	565	587	596	600	598	591	76.9
Tobacco, chewing and smoking	2,078	2,062	2,025	2,062	2,010	1,972	*1,918*	2,040	2,105	2,299	2,308	2,183	1,952	83.1
Tobacco, cigars and cigarettes	7,335	7,109	7,081	6,461	*6,319*	6,333	6,596	6,676	6,811	8,428	8,869	9,008	8,329	70.1
Trunks and valises	1,703	*1,549*	1,580	1,587	1,598	1,669	1,698	1,729	1,796	1,810	1,805	1,812	1,803	85.5
Woolen goods	630	613	611	*591*	602	604	635	638	660	631	663	659	653	89.1
All other industries	30,974	30,075	30,734	30,782	31,117	30,650	31,236	31,089	31,854	32,503	31,337	30,387	*29,924*	92.1
Industries showing large proportion of females.														
Boxes, wooden packing, except cigar boxes	450	458	457	449	488	478	471	473	*305*	459	489	417	456	62.4
Canning and preserving, fruits and vegetables	1,170	.....	*10*	11	46	40	31	335	4,389	4,625	3,899	625	29	0.2
Clothing, men's	2,050	*1,652*	1,725	1,805	1,908	1,892	2,023	2,103	2,209	2,203	2,350	2,358	2,372	69.6
Cotton goods	2,305	*2,148*	2,169	2,201	2,250	2,277	2,316	2,316	2,342	2,402	2,334	2,401	2,504	85.8
Knit goods	1,105	873	*871*	906	1,019	1,044	1,137	1,207	1,229	1,237	1,230	1,257	1,250	69.3
Peanuts, grading, roasting, cleaning, and shelling	952	1,004	1,029	1,022	997	1,041	1,022	917	946	844	*581*	834	1,187	48.9
Printing and publishing, book and job	554	550	*546*	548	*546*	552	549	559	552	553	558	564	571	95.6
Tobacco, chewing and smoking	975	948	954	1,002	970	958	917	972	972	1,049	1,077	1,025	*856*	79.5
Tobacco, cigars and cigarettes	5,049	4,863	4,870	4,455	*4,378*	4,400	4,585	4,601	4,636	5,850	6,120	6,156	5,674	71.1
Total for cities [2]	56,994	56,401	56,605	54,919	55,530	*54,808*	55,121	56,225	56,906	59,773	60,152	59,002	58,480	91.1
Males	42,015	42,454	42,424	41,127	41,655	40,866	*40,805*	41,631	42,175	43,478	43,277	42,276	42,012	93.9
Females	14,979	13,947	14,181	*13,792*	13,875	13,942	14,316	14,594	14,731	16,295	16,875	16,726	16,474	81.7
ALEXANDRIA	4,012	*3,514*	4,013	4,169	4,246	4,050	4,192	4,309	4,408	4,423	3,744	3,558	3,518	79.4
Males	3,932	3,447	3,938	4,093	4,169	3,974	4,116	4,245	4,323	4,338	3,660	3,468	3,413	78.7
Females	80	67	75	76	77	76	76	*64*	85	85	84	90	105	61.0
CHARLOTTESVILLE	450	*439*	440	443	442	452	445	464	465	455	456	453	446	94.4
Males	365	*354*	355	358	357	367	360	379	380	370	371	368	361	93.2
Females	85	85	85	85	85	85	85	85	85	85	85	85	85	100.0
DANVILLE	5,827	*5,644*	5,695	5,676	5,724	5,798	5,784	5,853	5,861	5,931	5,943	6,023	5,992	93.7
Males	3,640	*3,500*	3,513	3,525	3,553	3,641	3,600	3,665	3,717	3,749	3,724	3,767	3,726	92.9
Females	2,187	*2,144*	2,182	2,151	2,171	2,157	2,184	2,188	*2,144*	2,182	2,219	2,256	2,266	94.6
LYNCHBURG	4,486	*3,908*	3,949	4,137	4,157	4,259	4,477	4,546	4,672	4,856	5,020	4,926	4,925	77.8
Males	2,727	2,561	*2,553*	2,663	2,604	2,689	2,756	2,766	2,732	2,825	2,895	2,842	2,838	83.2
Females	1,759	*1,347*	1,396	1,474	1,553	1,570	1,721	1,780	1,940	2,031	2,125	2,084	2,087	63.4
NORFOLK	5,119	4,619	4,606	4,719	4,991	*4,480*	4,615	5,117	5,218	5,616	5,919	5,812	5,716	75.7
Males	3,848	3,696	3,664	3,704	3,881	*3,370*	3,492	3,917	4,015	4,024	4,169	4,121	4,123	80.8
Females	1,271	*923*	942	1,015	1,110	1,110	1,123	1,200	1,203	1,592	1,750	1,691	1,593	52.7
PETERSBURG	4,891	4,667	4,720	4,669	*4,532*	4,654	4,753	4,794	4,812	5,195	5,282	5,296	5,318	85.2
Males	3,256	*3,036*	3,128	3,070	3,044	3,112	3,217	3,220	3,259	3,448	3,521	3,524	3,493	86.2
Females	1,635	1,631	1,592	1,599	*1,488*	1,542	1,536	1,574	1,553	1,747	1,761	1,772	1,825	81.5

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

[2] Statistics for Newport News are omitted to avoid disclosure of individual operations.

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 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.	
PORTSMOUTH	2,237	2,296	2,299	2,330	2,308	2,238	*2,111*	2,129	2,188	2,230	2,194	2,218	2,303	90.6
Males	1,947	2,035	2,045	2,069	2,005	1,941	*1,793*	1,821	1,880	1,934	1,901	1,925	2,015	86.7
Females	290	261	*254*	261	303	297	318	308	308	296	293	293	288	79.9
RICHMOND	21,759	22,827	22,366	21,822	21,523	21,050	20,926	*20,827*	20,898	22,394	22,855	22,096	21,524	91.1
Males	15,178	16,296	15,708	15,582	15,408	14,948	14,702	*14,547*	14,668	15,320	15,520	14,887	14,550	89.3
Females	6,581	6,531	6,658	6,240	6,115	*6,102*	6,224	6,280	6,230	7,074	7,335	7,209	6,974	83.2
ROANOKE	7,740	8,088	8,088	*6,499*	7,150	7,373	7,371	7,706	7,874	8,176	8,235	8,107	8,213	78.9
Males	6,881	7,322	7,307	*5,830*	6,398	6,583	6,533	6,821	6,946	7,209	7,251	7,127	7,245	79.6
Females	859	766	781	*669*	752	790	838	885	928	967	984	980	968	68.0
STAUNTON	473	*399*	429	455	457	454	447	480	510	497	504	513	531	75.1
Males	241	*207*	213	233	236	241	236	250	255	261	265	247	248	78.1
Females	232	*192*	216	222	221	213	211	230	255	236	239	266	283	67.8

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	119,352	16,072	4,492	21,688	14,126	10,422	25,150	23,951	3,451
	1914	102,820	(2)	(2)	7,205	10,569	8,495	20,172	45,181	11,198
	1909	105,676	(2)	(2)	5,415	4,752	6,607	18,934	55,820	14,148
Boxes, paper and other, not elsewhere specified	1919	631	.....	.....	66	498	52	15	.....	.....
	1914	499	.....	.....	.....	.....	280	190	29	.....
Boxes, wooden packing, except cigar boxes	1919	2,534	182	.....	3	36	137	1,297	879	.....
	1914	1,989	(2)	(2)	86	262	5	470	1,166	.....
Bread and other bakery products	1919	1,262	8	.....	637	9	159	94	244	111
	1914	1,033	(2)	(2)	82	8	105	181	587	70
Brick, sewer pipe, and draintile	1919	1,331	98	.....	228	34	374	70	527	.....
	1914	1,663	(2)	(2)	159	82	205	184	1,016	17
Canning and preserving, fruits and vegetables	1919	1,836	206	194	175	58	122	250	831	.....
	1914	1,793	(2)	(2)	430	123	43	306	876	15
Carriages and wagons, including repairs	1919	777	.....	.....	264	14	71	199	229	.....
	1914	1,066	(2)	(2)	33	209	206	158	460	.....
Cars and general shop construction and repairs by steam-railroad companies.	1919	12,086	.....	2,968	5,542	.....	1	3,544	31	.....
	1914	10,375	(2)	(2)	1,998	5,035	617	222	461	2,042
Chemicals	1919	1,847	.....	.....	808	51	15	953	20	.....
	1914	644	.....	.....	.....	.....	.....	27	7	610
Clothing, men's	1919	2,305	1,342	16	508	179	187	73	.....	.....
	1914	1,224	(2)	(2)	437	267	176	207	137	.....
Coke, not including gas-house coke	1919	849	32	.....	706	.....	.....	46	50	15
	1914	852	.....	.....	.....	.....	.....	.....	528	324
Confectionery and ice cream	1919	855	36	3	115	165	203	76	132	125
	1914	617	(2)	(2)	9	254	14	164	113	63
Cooperage, hogsheads and barrels	1919	661	4	15	18	62	23	488	51	.....
	1914	1,390	(2)	(2)	11	33	39	186	1,121	.....
Cotton goods	1919	6,518	.....	.....	.....	.....	438	5,344	736	.....
	1914	6,310	.....	.....	.....	.....	.....	60	6,250	.....
Dyestuffs and extracts—natural	1919	1,002	.....	95	125	.....	.....	.....	546	236
	1914	429	(2)	(2)	22	.....	5	100	255	47
Fertilizers	1919	2,354	13	.....	20	12	386	772	1,151	.....
	1914	2,470	(2)	(2)	33	2	88	124	1,527	696
Flour-mill and gristmill products	1919	937	17	.....	42	10	34	45	512	277
	1914	1,082	(2)	(2)	53	3	5	63	730	228
Foundry and machine-shop products [3]	1919	1,724	29	4	866	86	374	181	184	.....
	1914	963	(2)	(2)	32	23	297	181	430	.....
Furniture	1919	1,296	.....	.....	42	126	187	390	551	.....
	1914	1,221	(2)	(2)	51	30	151	173	816	.....
Glass	1919	641	.....	222	303	.....	116	.....	.....	.....
	1914	606	(2)	(2)	163	343	100	.....	.....	.....
Ice, manufactured	1919	969	2	4	22	2	48	244	227	420
	1914	714	(2)	(2)	2	.....	.....	16	150	546
Iron and steel, blast furnaces	1919	1,081	.....	.....	.....	.....	.....	.....	.....	1,081
	1914	689	.....	.....	.....	.....	.....	.....	.....	689

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

[2] Corresponding figures not available.

[3] Includes "iron and steel, welding."

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.
Knit goods	1919	1,578	.....	221	.....	270	699	388	.....	.....
	1914	2,272	.....	.....	.....	.....	172	1,778	308	14
Leather, tanned, curried, and finished	1919	1,666	.....	25	321	.....	339	187	794	.....
	1914	1,205	(2)	(2)	20	.....	.....	94	1,089	2
Lime	1919	750	.....	.....	95	53	38	34	530	.....
	1914	694	.....	.....	.....	14	114	5	501	60
Lumber and timber products	1919	15,960	439	117	463	1,002	678	3,092	10,139	30
	1914	22,100	(2)	(2)	1,097	1,823	161	3,846	11,763	3,410
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	2,039	16	.....	117	125	517	600	419	245
	1914	2,216	(2)	(2)	32	118	494	364	1,208	.....
Minerals and earths, ground or otherwise treated	1919	752	.....	.....	12	26	.....	13	701	.....
	1914	75	.....	.....	.....	.....	.....	13	62	.....
Paper and wood pulp	1919	1,951	.....	.....	1,559	.....	55	.....	100	237
	1914	1,260	.....	.....	.....	.....	.....	.....	286	974
Paving materials	1919	586	.....	5	36	10	30	158	347	.....
	1914	642	(2)	(2)	25	35	.....	52	530	.....
Peanuts, grading, roasting, cleaning, and shelling	1919	1,528	28	.....	5	31	2	800	662	.....
	1914	1,505	(2)	(2)	5	193	1	442	864	.....
Printing and publishing, book and job	1919	1,695	5	81	1,534	45	16	4	10	.....
	1914	1,452	(2)	(2)	546	235	603	50	18	.....
Printing and publishing, newspapers and periodicals	1919	964	45	40	642	50	69	1	48	69
	1914	969	(2)	(2)	656	68	118	33	92	2
Shipbuilding, wooden, including boat building	1919	1,159	197	.....	780	82	61	21	18	.....
	1914	447	(2)	(2)	11	1	405	7	23	.....
Silk goods, including throwsters	1919	661	99	.....	104	194	61	203	.....	.....
	1914	691	.....	.....	.....	.....	.....	396	295	.....
Slaughtering and meat packing	1914	502	.....	.....	118	.....	187	133	48	16
	1919	396	(2)	(2)	2	79	44	145	107	19
Structural ironwork, not made in steel works or rolling mills	1919	791	45	.....	11	621	.....	25	89	.....
	1914	617	.....	.....	.....	.....	80	405	132	.....
Tinware, not elsewhere specified	1919	572	.....	.....	2	345	2	30	193	.....
	1914	360	.....	.....	.....	.....	.....	326	34	.....
Tobacco, chewing and smoking	1919	2,078	55	12	212	771	507	521	.....	.....
	1914	1,695	(2)	(2)	354	240	.....	1,097	4	.....
Tobacco, cigars and cigarettes	1919	7,335	8	15	748	6,071	197	293	3	.....
	1914	4,613	(2)	(2)	100	36	1,613	1,539	1,325	.....
Trunks and valises	1919	1,703	.....	.....	4	509	894	296	.....	.....
	1914	1,174	(2)	(2)	40	.....	179	350	605	.....
Woolen goods	1919	630	.....	.....	99	.....	8	420	103	.....
	1914	431	.....	.....	.....	.....	1	151	279	.....
All other industries	1919	30,956	13,166	455	4,336	2,579	3,135	3,850	2,846	589
	1914	20,377	(2)	(2)	716	1,031	2,174	6,067	8,997	1,392
Total for cities [3]	1919	56,994	4,536	4,007	12,620	12,171	6,363	12,844	3,156	1,297
	1914	40,726	(2)	(2)	3,371	6,116	6,201	11,942	11,063	2,287
ALEXANDRIA	1919	4,012	2,733	16	904	56	81	34	171	17
	1914	1,504	(2)	(2)	172	360	610	3	268	91
CHARLOTTESVILLE	1919	450	.....	.....	259	9	114	13	43	12
DANVILLE	1919	5,827	147	.....	51	19	.....	5,365	193	52
	1914	2,691	(2)	(2)	24	174	62	616	1,790	25
LYNCHBURG	1919	4,486	825	11	1,551	244	936	314	536	69
	1914	3,474	(2)	(2)	215	150	127	1,674	1,187	121
NORFOLK	1919	5,119	379	303	1,631	811	491	996	249	259
	1914	5,263	(2)	(2)	310	417	936	1,315	2,248	291
PETERSBURG	1919	4,891	26	12	256	2,417	1,096	692	367	25
	1914	3,903	(2)	(2)	219	55	134	2,297	1,130	68
PORTSMOUTH	1919	2,237	50	.....	927	34	234	608	211	173
	1914	767	(2)	(2)	56	21	29	.....	548	113
RICHMOND	1919	21,759	214	688	5,862	7,781	3,038	2,953	719	504
	1914	17,282	(2)	(2)	2,083	1,795	4,081	5,650	3,501	172
ROANOKE	1919	7,740	162	2,977	1,112	663	246	1,849	554	177
	1914	5,496	(2)	(2)	273	3,079	159	319	271	1,395
STAUNTON	1919	473	.....	.....	67	137	127	20	113	9
	1914	346	(2)	(2)	19	65	63	68	120	11

[1] Includes 48 and under for 1914 and 1909. [2] Corresponding figures not available. [3] Statistics for Newport News are omitted to avoid disclosure of individual operations.

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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
			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.	Wage earners (average number).	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	5,603	119,352	621	3,197	7,014	1,038	10,648	355	11,473	177	12,803	157	24,296	31	10,650	16	11,193	11	31,275
Boxes, paper and other, not elsewhere specified	16	631	1	1	1	5	83	5	146	3	242	1	159						
Boxes, wooden packing, except cigar boxes	34	2,534	1	5	16	5	63	11	417	5	408	4	661	3	969				
Bread and other bakery products	125	1,262	15	69	145	27	285	8	249	3	219	3	364						
Brick, sewer pipe, and draintile	45	1,331		8	21	18	233	13	468	4	277	2	332						
Canning and preserving, fruits and vegetables	473	1,836	56	335	855	74	694	7	200	1	87								
Carriages and wagons, including repairs	63	777	10	27	67	19	199	4	140	2	148	1	223						
Cars and general shop construction and repairs by steam-railroad companies	31	12,086		1	1	3	46	1	24	3	211	10	1,492	6	2,100	5	3,566	2	4,646
Chemicals	12	1,847		2	4	5	69	2	81			1	121			2	1,572		
Clothing, men's	28	2,305	1	1	1	7	73	4	124	9	697	5	670			1	740		
Coke, not including gas-house coke	13	849		1	2	1	13	6	210	2	145	3	479						
Confectionery and ice cream	76	855	4	44	83	15	153	8	228	5	391								
Cooperage, hogsheads and barrels	109	661	2	93	171	9	83	3	87	1	60			1	260				
Cotton goods	10	6,518								3	208	4	708	1	438	1	633	1	4,531
Dyestuffs and extracts—natural	17	1,002		4	17	2	23			7	487	4	475						
Fertilizers	43	2,354		9	40	9	119	8	313	9	626	8	1,256						
Flour-mill and gristmill products	537	937	224	284	511	24	215	4	109			1	102						
Foundry and machine-shop products	86	1,706	9	26	79	29	330	14	514	4	275	4	508						
Furniture	38	1,296	2	11	33	9	97	7	240	5	380	4	546						
Glass	4	641										4	641						
Ice, manufactured	106	969		59	148	34	365	11	288	1	58	1	110						
Iron and steel, blast furnaces	12	1,081				1	9	4	191	4	307	2	308	1	266				
Knit goods	10	1,578						1	39	2	169	6	1,081	1	289				
Leather, tanned, curried, and finished	21	1,666	3	3	3	1	11	2	58	4	282	8	1,312						
Lime	37	750	4	8	17	11	119	9	254	4	253	1	107						
Lumber and timber products	1,931	15,960	70	1,383	2,874	378	3,617	56	1,644	13	945	25	3,865	5	1,844			1	1,171
Lumber, planing-mill products, not including planing mills connected with sawmills	145	2,039	13	65	137	36	353	24	715	4	267	3	567						
Minerals and earths, ground or otherwise treated	18	752		7	19	4	56	5	163			1	103	1	411				
Paper and wood pulp	10	1,951						2	55	2	155	5	1,002			1	739		
Paving materials	24	586		5	21	7	87	8	184	3	192	1	102						
Peanuts, grading, roasting, cleaning, and shelling	28	1,528		4	9	5	54	8	235	8	593	2	288	1	349				
Printing and publishing, book and job	174	1,695	40	83	217	32	294	11	344	5	335	3	505						
Printing and publishing, newspapers and periodicals	197	964	53	111	252	20	236	11	356	2	120								
Shipbuilding, wooden, including boat building	30	1,159	1	15	27	4	56	3	108	3	191	4	777						
Silk goods, including throwsters	10	661						4	181	5	376	1	104						
Slaughtering and meat packing	25	502	2	13	29	5	56	3	116			2	301						
Structural ironwork, not made in steel works or rolling mills	7	791				3	36	1	45	1	89	1	128	1	493				
Tinware, not elsewhere specified	8	572		2	4			2	57	2	133	1	111	1	267				
Tobacco, chewing and smoking	14	2,078		2	6	1	12	1	50	5	370	3	498			2	1,142		
Tobacco, cigars and cigarettes	49	7,335	14	19	42	3	28	3	87	2	131	3	565			1	685	4	5,797
Trunks and valises	15	1,703		2	5	2	30	5	216	1	65	3	402	1	289	1	696		
Woolen goods	12	630		3	9	4	49	2	70	1	96	1	130	1	276				
All other industries	960	30,974	96	492	1,148	226	2,402	74	2,467	39	2,815	21	3,193	7	2,399	2	1,420	3	15,130
Total for cities[1]	1,255	56,994	98	505	1,286	321	3,540	161	5,251	76	5,412	60	9,333	13	4,544	11	7,523	10	20,105
ALEXANDRIA	35	4,012	1	15	31	7	103	6	165	1	56	3	466			1	523	1	2,668
CHARLOTTESVILLE	37	450	3	18	34	11	116	2	63	2	121	1	116						
DANVILLE	44	5,827	3	12	31	14	147	8	267	3	216	2	347	1	289			1	4,530
LYNCHBURG	65	4,486	2	18	45	19	227	9	325	4	286	7	1,011	5	1,852	1	740		
NORFOLK	207	5,119	14	66	198	69	761	34	1,091	14	1,039	8	1,316	2	714				
PETERSBURG	116	4,891	3	41	104	31	322	26	816	8	623	3	373	1	289	2	1,332	1	1,032
PORTSMOUTH	48	2,237	4	12	30	12	113	13	440	2	138	3	423	1	260	1	833		
RICHMOND	550	21,759	59	250	645	116	1,267	50	1,665	35	2,421	28	4,578	2	647	5	3,308	5	7,228
ROANOKE	99	7,740	2	43	105	29	333	11	363	6	446	4	566	1	493	1	787	2	4,647
STAUNTON	54	473	7	30	63	13	151	2	56	1	66	1	137						

[1] Statistics for Newport News are omitted to avoid disclosure of individual operations.

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	5,603	5,508	5,685	119,352	102,820	105,676	$643,511,621	$264,039,041	$219,793,858	$271,970,788	$108,719,465	$94,211,171
Less than $5,000	1,826	2,529	2,581	1,976	5,838	7,176	4,434,738	5,823,235	5,936,118	2,783,670	3,686,067	3,859,930
$5,000 to $20,000	1,874	1,763	1,917	6,989	12,694	15,254	19,268,925	17,850,020	19,134,920	11,027,310	9,809,703	11,171,420
$20,000 to $100,000	1,149	796	805	12,737	16,590	19,134	48,626,945	35,176,305	34,233,401	22,282,512	15,886,860	16,900,075
$100,000 to $500,000	536	320	356	25,943	39,113	41,497	122,011,365	67,571,776	101,364,437	50,483,391	41,903,961	38,289,549
$500,000 to $1,000,000	118	63		15,985			83,697,368	42,544,176		37,248,534		
$1,000,000 and over	100	37	26	55,722	28,585	22,615	365,472,280	95,073,529	59,124,982	148,145,371	37,432,874	23,990,197
	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	32.6	45.9	45.4	1.6	5.7	6.8	0.7	2.2	2.7	1.0	3.4	4.1
$5,000 to $20,000	33.4	32.0	33.7	5.9	12.3	14.4	3.0	6.8	8.7	4.0	9.0	11.9
$20,000 to $100,000	20.5	14.5	14.2	10.7	16.1	18.1	7.6	13.3	15.6	8.2	14.6	17.9
$100,000 to $500,000	9.6	5.8	6.3	21.7	38.0	39.3	19.0	25.6	46.1	18.6	38.5	40.6
$500,000 to $1,000,000	2.1	1.1		13.4			13.0	16.1		13.7		
$1,000,000 and over	1.8	0.6	0.4	46.7	27.8	21.4	56.8	36.0	26.9	54.5	34.4	25.5

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
BREAD AND OTHER BAKERY PRODUCTS	125	140	100.0	100.0	1,262	1,033	100.0	100.0	$11,002,219	$3,697,279	100.0	100.0	$3,982,685	$1,509,690	100.0	100.0
Less than $5,000	21	51	16.8	36.4	9	45	0.7	4.4	51,596	125,656	0.5	3.4	23,277	53,668	0.6	3.6
$5,000 to $20,000	42	54	33.6	38.6	69	182	5.5	17.6	458,184	530,424	4.2	14.3	175,274	229,598	4.4	15.2
$20,000 to $100,000	41	25	32.8	17.9	254	297	20.1	28.8	1,926,861	1,089,998	17.5	29.5	622,093	389,728	15.6	25.8
$100,000 to $500,000	16	10	12.8	7.1	433	509	34.3	49.3	3,473,817	1,951,201	31.6	52.8	1,202,739	836,696	30.2	55.4
$500,000 and over	5	.....	4.0	.....	497	.....	39.4	.....	5,091,761	.....	46.3	.....	1,959,302	.....	49.2	.....
CANNING AND PRESERVING, FRUITS AND VEGETABLES	473	412	100.0	100.0	1,836	1,793	100.0	100.0	4,427,441	1,773,766	100.0	100.0	1,280,555	493,457	100.0	100.0
Less than $5,000	229	319	48.4	77.4	381	788	20.8	43.9	562,052	611,211	12.7	34.5	187,594	168,529	14.6	34.2
$5,000 to $20,000	190	80	40.2	19.4	779	646	42.4	36.0	1,837,607	730,532	41.5	41.2	545,555	197,461	42.6	40.0
$20,000 to $500,000	54	13	11.4	3.2	676	359	36.8	20.0	2,027,782	432,023	45.8	24.4	547,406	127,467	42.7	25.8
CONFECTIONERY AND ICE CREAM	76	66	100.0	100.0	855	617	100.0	100.0	6,691,649	2,712,845	100.0	100.0	2,681,454	881,202	100.0	100.0
Less than $5,000	15	25	19.7	37.9	10	24	1.2	3.9	41,510	52,095	0.6	1.9	21,523	26,627	0.8	3.0
$5,000 to $20,000	24	21	31.6	31.8	45	63	5.3	10.2	233,886	236,966	3.5	8.7	88,362	99,834	3.3	11.3
$20,000 to $100,000	18	12	23.7	18.2	100	106	11.7	17.2	806,410	470,179	12.1	17.3	303,540	155,319	11.3	17.6
$100,000 and over	19	8	25.0	12.1	700	424	81.9	68.7	5,609,843	1,953,605	83.8	72.0	2,268,029	599,422	84.6	68.0
FERTILIZERS	43	57	100.0	100.0	2,354	2,470	100.0	100.0	22,891,353	11,350,120	100.0	100.0	8,693,159	3,354,199	100.0	100.0
Less than $5,000	.....	3	.....	5.3	.....	2	.....	0.1	.....	8,603	.....	0.1	.....	3,514	.....	0.1
$5,000 to $20,000	.....	3	.....	5.3	.....	23	.....	0.9	.....	27,146	.....	0.2	.....	14,217	.....	0.4
$20,000 to $100,000	[1] 9	24	20.9	42.1	[1] 88	531	3.7	21.5	[1] 486,387	1,332,866	2.1	11.7	[1] 193,356	416,469	2.2	12.4
$100,000 to $500,000	21	21	48.8	36.8	676	[2] 1,914	28.7	77.5	5,024,509	4,440,992	21.9	39.1	1,704,448	[2] 2,919,999	19.6	87.1
$500,000 to $1,000,000	7	[3] 6	16.3	10.5	677	.....	28.8	.....	5,023,954	[3] 5,540,513	21.9	48.8	2,223,054	.....	25.6	.....
$1,000,000 and over	6	.....	14.0	.....	913	.....	38.8	.....	12,356,503	.....	54.0	.....	4,572,301	.....	52.6	.....
FLOUR-MILL AND GRISTMILL PRODUCTS	537	533	100.0	100.0	937	1,082	100.0	100.0	36,154,105	18,084,413	100.0	100.0	5,226,263	2,694,903	100.0	100.0
Less than $5,000	96	114	17.9	21.4	13	62	1.4	5.7	244,944	355,121	0.7	2.0	59,977	90,539	1.1	3.4
$5,000 to $20,000	176	254	32.8	47.7	63	273	6.7	25.2	2,070,827	2,867,616	5.7	15.9	446,303	600,656	8.5	22.3
$20,000 to $100,000	201	131	37.4	24.6	300	373	32.0	34.5	8,536,303	5,334,118	23.6	29.5	1,505,549	920,883	28.8	34.2
$100,000 to $500,000	57	30	10.6	5.6	320	[4] 374	34.2	34.6	11,921,881	5,472,712	33.0	30.3	1,494,864	[4] 1,082,825	28.6	40.1
$500,000 and over	7	4	1.3	0.8	241	.....	25.7	.....	13,380,150	4,054,846	37.0	22.4	1,719,570	.....	32.9	.....
FOUNDRY AND MACHINE-SHOP PRODUCTS [5]	94	83	100.0	100.0	1,724	963	100.0	100.0	6,406,254	1,654,510	100.0	100.0	4,298,572	997,747	100.0	100.0
Less than $5,000	19	27	20.2	32.5	12	42	0.7	4.4	49,469	63,259	0.8	3.8	37,661	44,636	0.9	4.5
$5,000 to $20,000	24	25	25.5	30.2	91	168	5.3	17.4	250,326	272,694	3.9	16.5	174,105	183,828	4.1	18.4
$20,000 to $100,000	35	[6] 31	37.2	37.3	506	[6] 753	29.4	78.2	1,579,109	[6] 1,318,557	24.6	79.7	993,077	[6] 769,283	23.1	77.1
$100,000 to $1,000,000	16	.....	17.0	.....	1,115	.....	64.7	.....	4,527,350	.....	70.7	.....	3,093,729	.....	72.0	.....
FURNITURE	38	38	100.0	100.0	1,296	1,221	100.0	100.0	5,042,925	2,085,442	100.0	100.0	2,494,629	1,005,784	100.0	100.0
Less than $5,000	7	12	18.4	31.6	13	18	1.0	1.5	22,335	20,977	0.4	1.0	15,704	15,936	0.6	1.6
$5,000 to $20,000	8	9	21.1	23.7	51	55	3.9	4.5	104,006	154,580	2.1	7.4	67,555	119,931	2.7	11.9
$20,000 to $100,000	9	9	23.7	23.7	120	365	9.3	29.9	415,696	479,143	8.2	23.0	227,714	199,243	9.1	19.8
$100,000 to $1,000,000	14	8	36.8	21.1	1,112	783	85.8	64.1	4,500,888	1,430,742	89.2	68.6	2,183,656	670,674	87.5	66.7
LUMBER AND TIMBER PRODUCTS	1,931	2,031	100.0	100.0	15,960	22,100	100.0	100.0	35,388,875	22,938,189	100.0	100.0	24,723,919	15,704,425	100.0	100.0
Less than $5,000	884	1,227	45.8	60.4	1,058	3,591	6.6	16.2	2,034,108	2,795,723	5.7	12.2	1,549,623	2,140,521	6.3	13.6
$5,000 to $20,000	784	659	40.6	32.4	3,743	7,114	23.5	32.2	7,819,234	6,303,815	22.1	27.5	5,820,676	4,490,837	23.5	28.6
$20,000 to $100,000	216	120	11.2	5.9	3,351	4,039	21.0	18.3	7,458,958	4,683,536	21.1	20.4	5,182,129	3,079,765	21.0	19.6
$100,000 to $500,000	37	18	1.9	0.9	4,004	[7] 7,356	25.1	33.3	8,479,457	4,256,201	24.0	18.6	5,503,336	[4] 5,993,302	22.5	38.2
$500,000 and over	10	7	0.5	0.3	3,804	.....	23.8	.....	9,597,118	4,898,914	27.1	21.4	6,608,155	.....	26.7	.....

[1] Includes the group "$5,000 to $20,000."
[2] Includes the groups "$500,000 to $1,000,000" and "$1,000,000 and over."
[3] Includes the group "$1,000,000 and over."
[4] Includes the group "$500,000 and over."
[5] Includes "iron and steel, welding."
[6] Includes the group "$100,000 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
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS	145	164	100.0	100.0	2,039	2,216	100.0	100.0	$11,773,016	$5,688,874	100.0	100.0	$4,129,198	$1,990,587	100.0	100.0
Less than $5,000	40	48	27.6	29.3	23	140	1.1	6.3	79,343	102,500	0.7	1.8	39,070	63,924	0.9	3.2
$5,000 to $20,000	30	51	20.7	31.1	107	343	5.2	15.5	307,049	539,721	2.6	9.5	160,422	248,626	3.9	12.5
$20,000 to $100,000	43	50	29.7	30.5	436	802	21.4	36.2	1,991,215	2,410,011	16.9	42.4	567,274	867,056	13.7	43.6
$100,000 to $500,000	28	15	19.3	9.1	900	931	44.1	42.0	6,524,390	2,636,642	55.4	46.4	2,275,675	810,981	55.1	40.7
$500,000 to $1,000,000	4	.....	2.8	.....	573	.....	28.1	.....	2,871,019	.....	24.4	.....	1,086,757	.....	26.3	.....
PEANUTS, GRADING, ROASTING, CLEANING, AND SHELLING	28	25	100.0	100.0	1,528	1,505	100.0	100.0	23,162,211	10,981,159	100.0	100.0	3,112,841	1,463,083	100.0	100.0
$5,000 to $20,000	3	.....	10.7	.....	11	.....	0.7	.....	28,398	.....	0.1	.....	14,650	.....	0.5	.....
$20,000 to $100,000	3	[1] 6	10.7	24.0	16	[1] 52	1.0	3.5	174,678	[1] 235,224	0.8	2.1	37,014	[1] 48,788	1.2	3.3
$100,000 to $500,000	8	11	28.6	44.0	173	[2] 971	11.3	64.5	2,378,068	3,084,819	10.3	28.1	297,891	[2] 829,079	9.6	56.7
$500,000 to $1,000,000	5	5	17.9	20.0	214	.....	14.0	.....	3,522,718	3,681,476	15.2	33.5	423,468	.....	13.6	.....
$1,000,000 and over	9	3	32.1	12.0	1,114	482	72.9	32.0	17,058,349	3,979,640	73.6	36.2	2,339,818	585,216	75.2	40.0
PRINTING AND PUBLISHING, BOOK AND JOB	174	165	100.0	100.0	1,695	1,452	100.0	100.0	7,028,143	3,402,181	100.0	100.0	4,609,670	2,214,504	100.0	100.0
Less than $5,000	61	68	35.1	41.2	39	119	2.3	8.2	140,421	203,811	2.0	6.0	93,552	141,797	2.0	6.4
$5,000 to $20,000	56	70	32.2	42.4	171	317	10.1	21.8	560,593	566,678	8.1	16.7	375,768	384,861	8.2	17.4
$20,000 to $100,000	41	17	23.6	10.3	474	334	28.0	23.0	1,715,133	716,554	24.4	21.1	1,136,339	484,080	24.7	21.9
$100,000 to $1,000,000	16	10	9.2	6.1	1,011	682	59.6	47.0	4,611,996	1,915,038	65.6	56.3	3,004,011	1,203,766	65.2	54.4
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS	197	218	100.0	100.0	964	969	100.0	100.0	5,997,572	3,094,585	100.0	100.0	3,913,320	2,469,163	100.0	100.0
Less than $5,000	98	141	49.7	64.7	99	236	10.3	24.4	265,503	337,536	4.4	10.9	200,387	272,543	5.1	11.0
$5,000 to $20,000	64	56	32.5	25.7	207	242	21.5	25.0	586,737	492,692	9.8	15.9	442,555	406,342	11.3	16.5
$20,000 to $100,000	22	11	11.2	5.0	223	145	23.1	15.0	824,956	397,121	13.8	12.8	567,608	313,604	14.5	12.7
$100,000 to $1,000,000	13	10	6.6	4.6	435	346	45.1	35.7	4,320,376	1,867,236	72.0	60.3	2,702,770	1,476,674	69.1	59.8
SLAUGHTERING AND MEAT PACKING	25	21	100.0	100.0	502	396	100.0	100.0	7,589,320	4,362,272	100.0	100.0	1,361,753	636,798	100.0	100.0
Less than $20,000	8	6	32.0	28.6	10	9	2.0	2.3	60,446	73,252	0.8	1.7	20,976	20,257	1.5	3.2
$20,000 to $100,000	7	8	28.0	38.1	31	32	6.2	8.1	324,022	372,747	4.3	8.5	54,142	76,724	4.0	12.0
$100,000 and over	10	7	40.0	33.3	461	355	91.8	89.6	7,204,852	3,916,273	94.9	89.8	1,286,635	539,817	94.5	84.8
TOBACCO, CIGARS AND CIGARETTES	49	62	100.0	100.0	7,335	4,613	100.0	100.0	63,273,138	21,330,634	100.0	100.0	26,799,364	13,710,148	100.0	100.0
Less than $5,000	24	28	49.0	45.2	16	24	0.2	0.5	55,386	55,835	0.1	0.3	31,178	34,192	0.1	0.2
$5,000 to $20,000	10	24	20.4	38.7	47	127	0.6	2.8	126,214	228,843	0.2	1.1	57,904	140,094	0.2	1.0
$20,000 to $100,000	4	4	8.2	6.5	53	92	0.7	2.0	106,339	157,827	0.2	0.7	60,543	95,390	0.2	0.7
$100,000 to $1,000,000	6	3	12.2	4.8	737	547	10.0	11.9	2,380,352	1,420,219	3.8	6.7	914,687	894,880	3.4	6.5
$1,000,000 and over	5	3	10.2	4.8	6,482	3,823	88.4	82.9	60,604,847	19,467,910	95.8	91.3	25,735,052	12,545,592	96.0	91.5

[1] Includes the group "$5,000 to $20,000."

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

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. Average number.	WAGE EARNERS. Per cent of total.	VALUE OF PRODUCTS. Amount.	VALUE OF PRODUCTS. Per cent of total.	VALUE ADDED BY MANUFACTURE. Amount.	VALUE ADDED BY MANUFACTURE. Per cent of total.
ALEXANDRIA	35	4,012	100.0	$16,908,023	100.0	$9,125,775	100.0
Less than $5,000	7	6	0.1	19,649	0.1	12,837	0.1
$5,000 to $20,000	4	15	0.4	35,246	0.2	18,312	0.2
$20,000 to $100,000	11	142	3.5	500,410	3.0	209,026	2.3
$100,000 and over	13	3,849	95.9	16,352,718	96.7	8,885,600	97.4
CHARLOTTESVILLE	37	450	100.0	1,923,944	100.0	895,375	100.0
Less than $5,000	9	11	2.4	29,005	1.5	19,435	2.2
$5,000 to $20,000	11	27	6.0	122,975	6.4	61,564	6.9
$20,000 to $100,000	12	219	48.7	674,633	35.1	331,862	37.1
$100,000 to $500,000	5	193	42.9	1,097,331	57.0	482,514	53.9
DANVILLE	44	5,827	100.0	30,183,494	100.0	13,892,714	100.0
Less than $5,000	4	1	(1)	9,317	(1)	4,780	(1)
$5,000 to $20,000	8	21	0.4	90,862	0.3	41,243	0.3
$20,000 to $100,000	18	221	3.8	921,695	3.1	499,227	3.6
$100,000 and over	14	5,584	95.8	29,161,620	96.6	13,347,464	96.1
LYNCHBURG	65	4,486	100.0	27,449,656	100.0	11,366,618	100.0
Less than $5,000	7	6	0.1	23,408	0.1	13,828	0.1
$5,000 to $20,000	7	19	0.4	69,719	0.3	34,694	0.3
$20,000 to $100,000	19	186	4.1	1,013,842	3.7	473,255	4.2
$100,000 to $500,000	19	793	17.7	3,841,943	14.0	1,870,788	16.5
$500,000 to $1,000,000	6	1,044	23.3	4,429,761	16.1	1,799,734	15.8
$1,000,000 and over	7	2,438	54.3	18,070,983	65.8	7,174,319	63.1
NORFOLK	207	5,119	100.0	29,587,662	100.0	13,966,139	100.0
Less than $5,000	20	10	0.2	48,372	0.2	30,362	0.2
$5,000 to $20,000	43	139	2.7	488,794	1.7	291,821	2.1
$20,000 to $100,000	68	672	13.1	2,987,263	10.1	1,542,597	11.0
$100,000 to $500,000	62	2,312	45.2	14,147,993	47.8	6,095,076	43.6
$500,000 to $1,000,000	10	1,202	23.5	6,596,953	22.3	3,486,240	25.0
$1,000,000 and over	4	784	15.3	5,318,287	18.0	2,520,043	18.0
PETERSBURG	116	4,891	100.0	$26,440,199	100.0	$8,142,557	100.0
Less than $5,000	9	10	0.2	25,905	0.1	19,491	0.2
$5,000 to $20,000	29	83	1.7	322,015	1.2	199,930	2.5
$20,000 to $100,000	40	503	10.3	1,773,227	6.7	935,434	11.5
$100,000 to $500,000	29	1,239	25.3	6,697,227	25.3	1,968,180	24.1
$500,000 to $1,000,000	3	249	5.1	2,072,393	7.8	949,053	11.7
$1,000,000 and over	6	2,807	57.4	15,549,432	58.8	4,070,469	50.0
PORTSMOUTH	48	2,237	100.0	9,376,179	100.0	4,300,209	100.0
Less than $5,000	5	3	0.1	9,330	0.1	4,996	0.1
$5,000 to $20,000	10	32	1.4	131,322	1.4	55,693	1.3
$20,000 to $100,000	14	159	7.1	718,375	7.7	381,396	8.9
$100,000 to $500,000	15	856	38.2	3,469,133	37.0	1,365,699	31.8
$500,000 and over	4	1,187	53.1	5,048,019	53.8	2,492,425	58.0
RICHMOND	550	21,759	100.0	156,724,322	100.0	67,280,390	100.0
Less than $5,000	109	89	0.4	316,184	0.2	223,329	0.3
$5,000 to $20,000	157	514	2.4	1,622,746	1.0	1,055,843	1.6
$20,000 to $100,000	149	1,594	7.3	6,889,912	4.4	3,606,088	5.4
$100,000 to $500,000	83	4,007	18.4	19,406,465	12.4	8,786,139	13.1
$500,000 to $1,000,000	31	3,683	16.9	22,294,893	14.2	10,191,878	15.1
$1,000,000 and over	21	11,872	54.6	106,194,122	67.8	43,417,113	64.5
ROANOKE	99	7,740	100.0	34,864,211	100.0	19,314,295	100.0
Less than $5,000	12	12	0.2	36,700	0.1	24,474	0.1
$5,000 to $20,000	28	93	1.2	353,856	1.0	190,176	1.0
$20,000 to $100,000	29	271	3.5	1,377,050	3.9	691,399	3.6
$100,000 to $500,000	22	1,071	13.8	5,388,987	15.5	2,231,047	11.6
$500,000 and over	8	6,293	81.3	27,707,618	79.5	16,177,199	83.8
STAUNTON	54	473	100.0	2,566,548	100.0	662,581	100.0
Less than $5,000	18	17	3.6	47,719	1.9	26,763	4.0
$5,000 to $20,000	19	73	15.4	234,062	9.1	114,396	17.3
$20,000 and over	17	383	81.0	2,284,767	89.0	521,422	78.7

[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	2,937	1,379	1,287	119,352	10,801	101,457	7,094	9.0	85.0	5.9	$643,511,621	$42,956,484	$560,599,658	$39,955,479	6.7	87.1	6.2
	1914	3,065	1,162	1,281	102,820	16,598	77,015	9,207	16.1	74.9	8.9	264,039,041	28,657,424	212,653,891	22,727,726	10.9	80.5	8.6
	1909	3,061	1,099	1,525	105,676	19,132	72,865	13,679	18.1	69.0	12.9	219,793,858	29,961,088	163,892,508	25,940,262	13.6	74.6	11.8
Bread and other bakery products.	1919	79	27	19	1,262	342	817	103	27.1	64.7	8.2	11,602,219	3,188,287	7,046,826	767,106	29.0	64.0	7.0
	1914	101	18	21	1,033	362	578	93	35.0	56.0	9.0	3,697,279	1,162,252	2,209,138	325,889	31.4	59.8	8.8
Canning and preserving, fruits and vegetables.	1919	250	33	190	1,836	835	259	742	45.5	14.1	40.4	4,427,441	2,039,835	660,212	1,727,394	46.1	14.9	39.0
	1914	215	22	175	1,793	782	285	726	43.6	15.9	40.5	1,773,766	745,511	266,109	762,146	42.0	15.0	43.0
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	31	.....	12,086	.....	12,086	.....	.....	100.0	.....	32,777,078	.....	32,777,078	.....	.....	100.0	.....
	1914	.....	32	.....	10,375	.....	10,375	.....	.....	100.0	.....	18,216,056	.....	18,216,056	.....	.....	100.0	.....
Clothing, men's	1919	3	20	5	2,305	23	2,051	231	1.0	89.0	10.0	11,810,100	70,400	10,665,983	1,073,717	0.6	90.3	9.1
	1914	7	16	6	1,224	58	838	328	4.7	68.5	26.8	2,673,734	89,590	2,030,207	553,937	3.4	75.9	20.7
Confectionery and ice-cream.	1919	37	31	8	855	122	720	13	14.3	84.2	1.5	6,691,649	726,648	5,839,962	125,039	10.9	87.3	1.9
	1914	31	23	12	617	87	494	36	14.1	80.1	5.8	2,712,845	378,316	2,162,680	171,849	13.9	79.7	6.3
Cotton goods	1919	.....	10	.....	6,518	.....	6,518	.....	.....	100.0	.....	32,534,934	.....	32,534,934	.....	.....	100.0	.....
	1914	.....	9	.....	6,310	.....	6,310	.....	.....	100.0	.....	10,216,185	.....	10,216,185	.....	.....	100.0	.....
Fertilizers	1919	1	40	2	2,354	.....	2,324	[1] 30	.....	98.7	1.3	22,891,353	.....	22,482,233	[1] 409,120	.....	98.2	1.8
	1914	4	51	2	2,470	.....	2,367	[1] 103	.....	95.8	4.2	11,350,120	.....	10,573,747	[1] 776,373	.....	93.2	6.8
Flour-mill and gristmill products.	1919	297	67	173	937	249	333	355	26.6	35.5	37.9	36,154,105	7,803,717	13,389,614	14,960,774	21.6	37.0	41.4
	1914	327	58	148	1,082	422	306	354	39.0	28.3	32.7	18,084,413	5,792,360	5,294,456	6,997,597	32.0	29.3	38.7
Foundry and machine-shop products.[2]	1919	49	31	14	1,724	209	1,388	127	12.1	80.5	7.4	6,406,254	682,944	5,137,732	585,578	10.7	80.2	9.1
	1914	39	28	16	963	205	582	176	21.3	60.4	18.3	1,654,510	324,650	979,657	350,203	19.6	59.2	21.2
Ice, manufactured	1919	30	65	11	969	150	748	71	15.5	77.2	7.3	3,964,639	527,466	3,097,394	339,779	13.3	78.1	8.6
	1914	27	49	11	714	166	491	57	23.2	68.8	8.0	1,795,645	286,187	1,384,256	125,202	15.9	77.1	7.0
Leather, tanned, curried, and finished.	1919	6	15	.....	1,666	3	1,663	.....	0.2	99.8	.....	21,590,902	9,390	21,581,512	.....	(3)	100.0	.....
	1914	4	13	4	1,205	4	1,060	141	0.3	88.0	11.7	9,834,439	5,378	8,472,385	1,356,676	0.1	86.2	13.8
Lumber and timber products.	1919	1,325	123	483	15,960	4,980	8,554	2,426	31.2	53.6	15.2	35,388,875	10,456,665	19,752,296	5,179,914	29.5	55.8	14.6
	1914	1,439	93	499	22,100	9,273	9,041	3,786	42.0	40.9	17.1	22,938,189	8,271,719	11,058,789	3,607,681	36.1	48.2	15.7
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	64	54	27	2,039	237	1,618	184	11.6	79.4	9.0	11,773,016	1,324,059	9,050,733	1,398,224	11.2	76.9	11.9
	1914	66	55	43	2,216	324	1,489	403	14.6	67.2	18.2	5,688,874	733,296	3,879,124	1,076,454	12.9	68.2	18.9
Peanuts, grading, roasting, cleaning, and shelling.	1919	5	22	1	1,528	.....	1,419	[1] 109	.....	92.9	7.1	23,162,211	.....	21,097,063	[1] 2,065,148	.....	91.1	8.9
	1914	5	19	1	1,505	.....	1,412	[1] 93	.....	93.8	6.2	10,981,159	.....	9,952,585	[1] 1,028,574	.....	90.6	9.4
Printing and publishing, book and job.	1919	104	47	23	1,695	278	1,152	265	16.4	68.0	15.6	7,028,143	1,128,603	4,754,664	1,144,876	16.1	67.7	16.3
	1914	95	39	31	1,452	329	803	320	22.7	55.3	22.0	3,402,181	601,022	2,112,113	689,046	17.7	62.1	20.3
Printing and publishing, newspapers and periodicals.	1919	98	60	39	964	251	632	81	26.0	65.6	8.4	5,997,572	885,036	4,642,086	470,450	14.8	77.4	7.8
	1914	119	59	40	969	380	518	71	39.2	53.5	7.3	3,094,585	797,872	2,143,664	153,049	25.8	69.3	4.9
Shipbuilding, wooden, including boat building.	1919	13	9	8	1,159	114	1,007	38	9.8	86.9	3.3	4,582,130	310,260	4,172,479	99,391	6.8	91.1	2.2
	1914	16	6	6	447	74	338	35	16.6	75.6	7.8	448,180	85,999	321,935	40,246	19.2	71.8	9.0
Slaughtering and meat packing.	1919	5	11	9	502	18	456	28	3.6	90.8	5.6	7,589,320	443,640	6,814,384	331,296	5.8	89.8	4.4
	1914	6	9	6	396	91	263	42	23.0	66.4	10.6	4,362,272	670,060	3,168,804	523,408	15.4	72.6	12.0
Tobacco, chewing and smoking.	1919	.....	11	3	2,078	.....	1,961	117	.....	94.4	5.6	15,076,671	.....	14,660,653	416,018	.....	97.2	2.8
	1914	4	9	1	1,695	.....	1,610	[1] 85	.....	95.0	5.0	8,765,179	.....	8,570,798	[1] 194,381	.....	97.8	2.2
Tobacco, cigars and cigarettes.	1919	30	11	8	7,335	53	7,174	108	0.7	97.8	1.5	63,273,138	179,068	62,786,886	307,184	0.3	99.2	0.5
	1914	38	9	15	4,613	100	4,394	119	2.2	95.3	2.6	21,330,634	216,896	20,934,494	179,244	1.0	98.1	0.8
Total for cities [4]	1919	471	583	201	56,994	2,863	51,960	2,171	5.0	91.2	3.8	336,024,238	16,089,249	301,312,787	18,622,202	4.8	89.7	5.5
	1914	417	474	196	40,726	3,121	35,238	2,367	7.7	86.5	5.8	127,709,459	8,645,116	110,140,428	8,923,915	6.8	86.2	7.0
Alexandria	1919	11	18	6	4,012	36	3,950	26	0.9	98.5	0.6	16,908,023	677,863	16,056,307	173,853	4.0	95.0	1.0
	1914	18	20	11	1,504	56	1,335	113	3.7	88.8	7.5	3,660,291	233,326	3,149,661	277,304	6.4	86.0	7.6
Charlottesville	1919	17	11	9	450	58	348	44	12.9	77.3	9.8	1,923,944	245,408	1,125,850	552,686	12.8	58.5	28.7
Danville	1919	20	20	4	5,827	126	5,618	83	2.2	96.4	1.4	30,183,494	696,183	29,204,038	283,273	2.3	96.8	0.9
	1914	14	21	8	2,691	93	2,465	133	3.5	91.6	4.9	5,558,431	195,698	5,021,151	341,582	3.5	90.3	6.1
Lynchburg	1919	14	49	2	4,486	[5] 96	4,390	.....	2.1	97.9	.....	27,449,656	[5] 462,977	26,986,679	.....	1.7	98.3	.....
	1914	26	38	9	3,474	156	3,229	89	4.5	92.9	2.6	9,918,779	449,400	9,123,573	345,806	4.5	92.0	3.5
Norfolk	1919	70	99	38	5,119	796	3,825	498	15.5	74.7	9.7	29,587,662	4,788,202	21,409,816	3,389,644	16.2	72.4	11.5
	1914	72	95	42	5,263	801	4,045	417	15.2	76.9	7.9	13,710,487	1,662,742	10,953,624	1,094,121	12.1	79.9	8.0
Petersburg	1919	39	61	16	4,891	344	4,412	135	7.0	90.2	2.8	26,440,199	1,794,228	24,049,803	596,168	6.8	91.0	2.3
	1914	31	44	12	3,903	258	3,460	185	6.6	88.6	4.7	12,609,943	1,649,427	10,572,027	388,489	13.1	83.8	3.1
Portsmouth	1919	19	23	6	2,237	99	2,057	81	4.4	92.0	3.6	9,376,179	580,461	8,374,219	421,499	6.2	89.3	4.5
	1914	27	9	6	767	529	204	34	69.0	26.6	4.4	1,730,657	953,324	659,746	117,587	55.1	38.1	6.8
Richmond	1919	235	225	90	21,759	1,169	19,587	1,003	5.4	90.0	4.6	156,724,322	6,224,057	139,617,932	10,882,333	4.0	89.1	6.9
	1914	188	197	81	17,282	1,091	15,057	1,134	6.3	87.1	6.6	62,490,667	3,126,181	54,376,802	4,987,684	5.0	87.0	8.0
Roanoke	1919	22	63	14	7,740	75	7,547	118	1.0	97.5	1.5	34,864,211	294,147	34,041,376	528,688	0.8	97.6	1.5
	1914	20	39	14	5,496	49	5,366	81	0.9	97.6	1.5	16,581,988	156,608	16,112,240	313,140	0.9	97.2	1.9
Staunton	1919	24	14	16	473	64	226	183	13.5	47.8	38.7	2,566,548	325,723	446,767	1,794,058	12.7	17.4	69.9
	1914	21	11	13	346	88	77	181	25.4	22.3	52.3	1,448,216	218,410	171,604	1,058,202	15.1	11.8	73.1

[1] Includes the group "Individuals."
[2] Includes "iron and steel, welding."
[3] Less than one-tenth of 1 per cent.
[4] Statistics for Newport News are omitted to avoid disclosure of individual operations.
[5] Includes the group "All others."

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.[1]	
			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	.....	10	.....	4	.....	4	.....	2	.....	.....	.....
	1914	.....	9	.....	3	.....	5	.....	1	.....	.....	.....
	1909	.....	9	.....	4	.....	4	.....	1	.....	.....	.....
Population [2]	1920	2,309,187	514,665	22.3	60,910	2.6	166,311	7.2	287,444	12.4	1,794,522	77.7
	1915	2,150,009	403,225	18.8	46,683	2.2	221,625	10.3	134,917	6.3	1,746,784	81.2
	1910	2,061,612	361,718	17.5	69,080	3.3	165,010	8.0	127,628	6.2	1,699,894	82.5
Number of establishments	1919	5.603	1,255	22.4	170	3.0	328	5.9	757	13.5	4,348	77.6
	1914	5,508	1,087	19.7	137	2.5	484	8.8	466	8.5	4,421	80.3
	1909	5,685	992	17.4	222	3.9	390	6.9	380	6.7	4,693	82.6
Average number of wage earners	1919	119,352	56,994	47.8	10,762	9.0	19,354	16.2	26,878	22.5	62,358	52.2
	1914	102,820	40,726	39.6	4,541	4.4	18,903	18.4	17,282	16.8	62,094	60.4
	1909	105,676	36,782	34.8	8,772	8.3	13,161	12.4	14,849	14.1	68,894	65.2
Value of products	1919	$643,511,621	$336,024,238	52.2	$51,582,009	8.0	$98,130,245	15.2	$186,311,984	29.0	$307,487,383	47.8
	1914	264,039,041	127,709,459	48.4	10,666,938	4.0	54,551,854	20.7	62,490,667	23.7	136,329,582	51.6
	1909	219,793,858	96,603,688	44.0	19,927,390	9.1	29,318,313	13.3	47,357,985	21.5	123,190,170	56.0
Value added by manufacture	1919	271,970,788	148,946,653	54.8	24,576,445	9.0	43,123,679	15.9	81,246,529	29.9	123,024,135	45.2
	1914	108,719,465	56,451,854	51.9	4,407,431	4.1	20,112,558	18.5	31,931,865	29.4	52,267,611	48.1
	1909	94,211,171	42,959,778	45.6	7,304,958	7.8	12,548,970	13.3	23,105,850	24.5	51,251,393	54.4

[1] Includes statistics for Newport News, to avoid disclosure of individual operations.
[2] 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.—COMPARATIVE SUMMARY, BRISTOL, VA., AND BRISTOL, TENN.: 1919, 1914, AND 1909.

	Total.					Bristol, Va.					Bristol, Tenn.				
	1919	1914	1909	Per cent of increase.[1]		1919	1914	1909	Per cent of increase.[1]		1919	1914	1909	Per cent of increase.[1]	
				1914-1919	1909-1914				1914-1919	1909-1914				1914-1919	1909-1914
Population [2]	14,776	14,906	13,395	−0.9	11.3	6,729	6,958	6,247	−3.3	11.4	8,047	7,948	7,148	1.2	11.2
Number of establishments	58	57	51	.....	.....	33	31	28	.....	.....	25	26	23	.....	.....
Persons engaged	2,053	1,385	1,319	48.2	5.0	1,495	995	942	50.3	5.6	558	390	377	43.1	3.4
Proprietors and firm members	34	31	42	.....	.....	17	19	20	.....	.....	17	12	22	.....	.....
Salaried employees	290	225	148	28.9	52.0	208	135	80	54.1	.....	82	90	68	.....	.....
Wage earners (average number)	1,729	1,129	1,129	53.1	.....	1,270	841	842	51.0	−0.1	459	288	287	59.4	0.3
Primary horsepower	4,886	3,651	3,914	33.8	−6.7	4,433	2,985	2,625	48.5	13.7	453	666	1,289	−32.0	−48.3
Capital	$7,074,078	$2,940,791	$3,062,409	140.6	−4.0	$5,330,729	$2,033,170	$1,716,738	162.2	18.4	$1,743,349	$907,621	$1,345,671	92.1	−32.6
Salaries and wages	2,103,987	689,533	631,813	205.1	9.1	1,740,804	494,297	471,486	252.2	4.8	363,183	195,236	160,327	86.0	21.8
Salaries	588,849	239,862	142,741	145.5	68.0	476,758	141,737	89,126	236.4	59.0	112,091	98,125	53,615	14.2	83.0
Wages	1,515,138	449,671	489,072	236.9	−8.1	1,264,046	352,560	382,360	258.5	−7.8	251,092	97,111	106,712	158.6	−9.0
Cost of materials	6,198,117	2,087,120	1,828,296	197.0	14.2	5,236,203	1,645,788	1,234,322	218.2	33.3	961,824	441,332	593,974	117.9	−25.7
Value of products	10,289,378	3,397,426	2,848,777	202.9	19.3	8,454,902	2,542,851	1,970,668	232.5	29.0	1,834,476	854,575	878,109	114.7	−2.7
Value added by manufacture	4,091,261	1,310,306	1,020,481	212.2	28.4	3,218,609	897,063	736,346	258.8	21.8	872,652	413,243	284,135	111.2	45.4

[1] A minus sign (−) denotes decrease; percentages are omitted where base is less than 100.

[2] Census estimate of population for 1914.

TABLE 17.—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 over 1914.	
			Amount.	Per cent.
NORFOLK.				
Bread and other bakery products	$3,298,981	30.0	$2,462,951	294.6
Lumber, planing-mill products, not including planing mills connected with sawmills	1,985,909	16.9	1,144,887	136.1
Printing and publishing, newspapers and periodicals	1,572,520	26.2	1,034,335	192.2
Foundry and machine-shop products	1,424,789	22.4	1,197,614	527.2
Boxes, wooden packing, except cigar boxes	1,251,465	13.6	(1)	.....
Confectionery and ice cream	1,022,419	15.3	(1)	.....
Clothing, men's	999,194	8.5	(1)	.....
Ice, manufactured	837,814	21.1	418,591	99.8
Mineral and soda waters	705,924	16.3	527,584	295.8
Printing, job	592,907	8.4	291,389	96.6
Bags, other than paper, not including bags made in textile mills; Chemicals; Food preparations, not elsewhere specified; Gas, illuminating and heating; Peanuts, grading, roasting, cleaning, and shelling; Shipbuilding, wooden; Tobacco, cigars and cigarettes	(1)	(1)	(1)	(1)
PORTSMOUTH.				
Lumber, planing-mill products, not including planing mills connected with sawmills	738,503	6.3	(1)	.....
Confectionery, ice cream	443,809	6.6	397,000	848.1
Ice, manufactured	316,102	8.0	(1)	.....
Brass and bronze products; Cars and general shop construction and repairs by steam-railroad companies; Cooperage, hogsheads and barrels; Fertilizers; Grease and tallow, not including lubricating greases	(1)	(1)	(1)	(1)
RICHMOND.				
Tobacco, cigars and cigarettes	54,107,156	85.5	36,987,705	216.1
Tobacco, chewing and smoking	12,340,704	81.9	4,603,403	59.5
Cars and general shop construction and repairs by steam-railroad companies	6,349,385	19.4	3,731,123	142.5
Printing and publishing, book and job	4,688,631	66.7	2,590,897	123.5
Bread and other bakery products	4,364,218	39.7	2,748,933	170.2
RICHMOND—Continued.				
Coffee, roasting and grinding	$2,751,825	85.2	$1,713,073	164.9
Lumber, planing-mill products, not including planing mills connected with sawmills	2,442,606	20.7	1,505,843	160.7
Confectionery and ice cream	2,322,052	34.7	1,229,126	112.5
Printing and publishing, newspapers and periodicals	2,021,422	33.7	851,271	72.7
Boxes, wooden packing, except cigar boxes	1,413,692	15.3	1,031,192	269.6
Boxes, paper and other, not elsewhere specified	1,086,065	63.6	567,117	109.3
Mineral and carbonated waters	1,069,215	24.6	798,264	294.6
Bags, other than paper, not including bags made in textile mills; Baking powders and yeast; Clothing, men's; Envelopes; Fertilizers; Flavoring extracts; Flour-mill and gristmill products; Gas, illuminating and heating; Iron and steel, steel works and rolling mills; Leather, tanned, curried, and finished; Locomotives, not made by railroad companies; Paper and wood pulp; Saddlery and harness; Slaughtering and meat packing; Tinware, not elsewhere specified; Trunks and valises; Wooden goods, not elsewhere specified	(1)	(1)	(1)	(1)
ROANOKE.				
Cars and general shop construction and repairs by steam-railroad companies	12,892,766	39.3	3,114,120	31.8
Lumber, planing-mill products, not including planing mills connected with sawmills	878,036	7.5	(1)	.....
Printing, job	568,773	8.1	174,686	44.3
Chemicals; Clothing, men's; Cordage and twine; Flour-mill and gristmill products; Structural ironwork, not made in steel works or rolling mills; Tinware, not elsewhere specified	(1)	(1)	(1)	(1)

[1] Figures can not be shown without disclosing individual operations.

TABLE 18.—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	18,116	9,466	7,388	419,946	337,567	283,928	100.0	100.0	100.0
Owned	5,343	5,738	5,727	304,920	300,425	270,160	72.6	89.0	95.2
Steam [1]	4,181	4,528	4,656	256,766	249,044	221,341	61.1	73.8	78.0
Engines	4,081	(2)	(2)	211,816	(2)	(2)	50.4	.....	.....
Turbines	100	(2)	(2)	44,950	(2)	(2)	10.7	.....	.....
Internal-combustion engines	532	495	306	9,067	6,659	3,664	2.2	2.0	1.3
Water	630	715	765	39,087	44,722	45,155	9.3	13.2	15.9
Water wheels and turbines	616	711	751	38,926	44,701	45,122	9.3	13.2	15.9
Water motors	14	4	14	161	21	33	(3)	(3)	(3)
Rented	12,773	3,728	1,661	115,026	37,142	13,768	27.4	11.0	4.8
Electric	12,773	3,728	1,661	114,818	37,142	13,356	27.3	11.0	4.7
Other	.....	.....	.....	208	.....	412	(3)	.....	0.1
Electric	16,495	6,581	2,936	188,455	102,013	42,043	100.0	100.0	100.0
Rented	12,773	3,728	1,661	114,818	37,142	13,356	60.9	36.4	31.8
Generated by establishments reporting	3,722	2,853	1,275	73,637	64,871	28,687	39.1	63.6	68.2

[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 19.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

INDUSTRY AND CITY.	COAL. Anthracite (tons, 2,240 pounds).	COAL. Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
All industries 1919	23,475	3,232,388	603,617	292,726	9,644	44,046
1914	14,981	2,823,292	558,028	128,690	(1)	35,712
Per cent of increase	56.7	14.5	8.2	135.0	(1)	23.3
Bread and other bakery products	2,937	11,444	1,141	12	382	2,552
Brick, sewer pipe, and draintile	70	109,420		85	174	
Canning and preserving, fruits and vegetables	850	5,728		9	196	
Cars and general shop construction and repairs by steam-railroad companies		166,168	830	4,514	8	
Chemicals	60	146,051	21,510	130		
Coke, not including gas-house coke		1,482,814			12	
Confectionery and ice cream	99	6,178	370		74	4,529
Cotton goods		74,038			52	
Dyestuffs and extracts—natural	1,724	109,292			7	
Fertilizers	1,209	28,656		2,418	158	
Flour-mill and gristmill products	1,020	11,800		4,948	3,066	
Foundry and machine-shop products	66	3,636	5,508	88	112	719
Furniture	953	5,443		31	18	
Gas, illuminating and heating	264	116,855	19,309	143,931		
Glass		13,250		3,215		
Grease and tallow, not including lubricating greases		9,869				
Ice, manufactured	1,959	132,444	13	1,584	161	
Iron and steel, blast furnaces		30,831	480,601			
Knit goods		8,403				
Leather, tanned, curried, and finished		37,964			7	
Lime	2,696	41,627	6,292	3	15	
Locomotives, not made by railroad companies	63	20,956	1,697	11,422		
Lumber and timber products	77	57,836	50	2,150	602	
Minerals and earths, ground or otherwise treated		15,399		590	54	
Paints	3	7,251	28		14	88
Paper and wood pulp		196,940	800	600	100	
Patent medicines and compounds	57	8,524		2		31
Paving materials	60	22,353		89	64	
Peanuts, grading, roasting, cleaning, and shelling	410	7,993	15	5		42
Slaughtering and meat packing		12,328			6	
Tobacco, chewing and smoking		14,276				1,416
Tobacco, cigars and cigarettes	51	25,321				9,222
Wall plaster and composition flooring		7,561	170			
Wood preserving		5,740				
Woolen goods		5,883		128	42	
All other industries	8,847	272,116	65,283	116,772	4,320	26,863
Total for cities [2]	11,919	560,084	63,959	184,808	2,084	36,963
ALEXANDRIA	324	28,557	2,022	10,858	348	69
CHARLOTTESVILLE	32	7,964	50			165
DANVILLE	74	77,636	493	6	3	740
LYNCHBURG	568	50,516	9,231	6,398	70	824
NORFOLK	2,150	41,913	14,973	39,315	444	6,900
PETERSBURG	66	28,579	879	6,176	13	4,737
PORTSMOUTH	917	31,867	1,406	9,670		527
RICHMOND	3,585	180,294	13,351	97,900	354	20,093
ROANOKE	4,197	108,015	21,213	12,373	592	2,584
STAUNTON	6	4,743	341	2,112	260	324

[1] Included in figures for fuel oils.

[2] Statistics for Newport News are omitted to avoid disclosure of individual operations.

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 seven of these industries for Virginia are here presented.

Flour-mill and gristmill products (Table 20).—This table shows the kind, quantity, and value of the principal products of these mills for 1919, 1914, and 1909.

Wheat flour was the product of chief value in 1919, as it was in 1914, forming 67.2 per cent and 59.2 per cent, respectively, of the total value of all products of the industry in the state. The total value of products increased $18,069,692, or 99.9 per cent, during the five-year period 1914–1919, and the value of wheat flour $13,609,013, or 127.2 per cent.

TABLE 20.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$36,154,105	$18,084,413	$17,598,045
Wheat flour:			
Barrels	2,207,724	2,161,767	1,898,712
Value	$24,311,601	$10,702,588	$10,263,031
Rye flour:			
Barrels	3,578	4,746	3,204
Value	$22,432	$21,829	$12,839
Buckwheat flour:			
Pounds	986,695	532,980	1,449,417
Value	$55,052	$16,452	$35,080
Barley meal:			
Pounds	276,730	734,930	338,770
Value	$10,496	$12,680	$5,657
Corn meal and corn flour:			
Barrels	723,003	1,099,215	1,410,351
Value	$5,655,781	$3,861,142	$4,456,117
Bran and middlings:			
Tons	83,514	91,142	109,142
Value	$4,122,898	$2,457,357	$2,725,432
Feed and offal:			
Tons	29,002	31,466	
Value	$1,664,125	$933,213	
All other cereal products, value	$246,483	$12,754	$70,337
All other products, value	$65,237	$66,398	$29,552

Lumber and timber products (Table 21).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. The largest lumber cut reported for Virginia for any year for which records are available was in 1909, and in that year this state ranked sixth among the states in the production of this commodity. In 1914 it dropped to ninth place, and in 1919, twelfth. The cut for 1919, compared with that for 1914, decreased 26.2 per cent, and compared with that for 1909, 47.8 per cent.

Virginia, next to North Carolina, reported the largest number of sawmills in operation in 1919. The majority of the sawmills were small and their average cut was only 372,975 feet.

The lumber cut from the principal species in 1919 was reported as follows: Yellow pine, 646,834,000 feet, or 58.9 per cent of the total cut from all species in the state; oak, 240,707,000 feet, or 21.9 per cent; chestnut, 69,458,000 feet, or 6.3 per cent; yellow poplar, 44,205,000 feet, or 4 per cent; and hemlock, 28,744,000 feet, or 2.6 per cent. Among other woods sawed into lumber in considerable quantities were gum, white pine, basswood, maple, cypress, and birch.

TABLE 21.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY.[1]		
	1919	1914	1909
Lumber ... M feet b. m.	1,098,038	1,488,070	2,101,716
Lath ... thousands	27,073	(2)	127,555
Shingles ... thousands	1,637	(2)	39,172

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

Fertilizers (Table 22).—This table shows the quantities and values of the chief products of the fertilizer industry in Virginia in 1919, 1914, and 1909. Measured by value of products, the state ranked fifth among the states, being exceeded by Georgia, Maryland, South Carolina, and North Carolina. There was a slight decrease in quantity production in 1919 as compared with 1914, but a large increase in value—the average ton value being $38 in 1919, as compared with $18 in 1914 and 1909.

TABLE 22.—FERTILIZERS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$22,955,194	$11,581,495	$8,253,081
The fertilizer industry, value	$22,891,353	$11,350,120	$8,034,543
Subsidiary fertilizer products from other industries, value	$63,841	$231,375	$218,538
Fertilizers:			
Tons	530,000	541,690	373,407
Value	$20,309,985	$9,524,113	$6,779,325
Complete and ammoniated fertilizers—			
Tons	361,802	375,256	197,272
Value	$16,320,418	$7,576,028	$4,128,046
Superphosphates and concentrated phosphates—			
Tons	152,305	76,130	68,389
Value	$3,416,931	$669,654	$794,367
Other fertilizers—			
Tons	15,893	90,304	107,746
Value	$563,636	$1,278,431	$1,856,912
All other products, value	$2,581,368	$2,057,382	$1,473,756

Leather, tanned, curried, and finished (Table 23).—This table shows for 1919, 1914, and 1909 the kind, quantity, and value of leather produced in the state of Virginia.

TABLE 23.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value	$21,590,902	$9,834,439	$8,266,850
Leather:			
Oak sole—			
Sides	586,464	936,781	673,757
Value	$8,687,212	$7,535,199	$4,878,935
Oak belting—			
Sides	359,995	167,046	352,712
Value	$8,623,631	$1,363,350	$2,065,331
All other, value	$2,539,722	$702,379	$827,867
All other products, value	$374,250	$233,511	$307,850
Amount received for tanning, currying, or finishing for others	$1,366,087	(1)	$186,867

[1] Included in "All other products" to avoid disclosure of individual operations.

The total value of products for the state in 1919 increased by $11,756,463, or 119.5 per cent, over the value reported in 1914. Oak sole and oak belting leather constituted 80 per cent of the total value, the ratio toward the total being practically 40 per cent for each, the former showing a large decrease compared with 1914 in number of sides tanned, but a small increase in value, and the latter showing a very large increase in both quantity and value.

"All other leather" covers principally sole offal and belting offal, lace leather, some cattle side upper, and upper leather made from skins, harness, saddlery, horse, skirting, etc. Custom tanning, which had almost ceased at the census of 1914, shows a large increase during the decade 1909–1919.

Iron and steel, blast furnaces (Table 24).—This table shows the statistics for pig-iron production of the state in 1919, 1914, and 1909. The pig iron was essentially all of foundry grade. Virginia ranked eighth among the states in this industry.

TABLE 24.—IRON AND STEEL, BLAST FURNACES: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value	$10,097,816	$3,772,382	$5,389,287
Pig iron—			
Tons (2,240 pounds)	291,117	203,077	387,328
Value	$9,232,864	$3,753,082	$5,324,997
Unit value, ton	$32	$18	$14
All other products, value	$864,952	$19,300	$64,290

Printing and publishing (Table 25).—This table shows the number and aggregate circulation per issue for all publications reported as published in Virginia in 1919, 1914, and 1909.

TABLE 25.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total	231	265	258	1,235,158	1,232,608	1,019,968
Daily	31	32	32	257,207	233,975	174,149
Sunday	11	9	8	179,338	117,531	79,258
Semiweekly [1]	5	6	12	6,550	13,385	16,789
Weekly	151	165	161	356,735	429,016	392,106
Monthly [2]	25	32	28	266,104	234,445	183,605
Quarterly [3]	8	21	17	169,224	204,256	174,061

[1] Includes in 1919, 1 triweekly; in 1914 and 1909, 2 triweeklies.
[2] Includes in 1919, 2 semimonthlies; in 1914, 1 semimonthly.
[3] Includes in 1914, 3 bimonthlies, 2 semiannuals, and 1 semiweekly; in 1909, 5 bimonthlies and 5 classed as "All other."

Eighteen of the 31 dailies reported for 1919 were published in the afternoon. Their circulation—159,730—was 62.1 per cent of the total daily circulation, an increase of 31,109, or 24.2 per cent, over the afternoon circulation in 1914. The increase in total daily circulation was 23,232, or 9.9 per cent, for the five-year period from 1914 to 1919.

Sunday newspapers increased both in number and circulation, the growth of the latter from 1914 to 1919 being 61,807, or 52.6 per cent; for the decade it more than doubled.

Only two publications were printed in a foreign language—both German weeklies.

Shipbuilding, including boat building (Table 26).—This classification includes the building as well as the repairing of steel and wooden vessels and small craft, and also the manufacture of masts, spars, oars, and rigging. The number and tonnage of all vessels launched in 1919 and 1916 are shown by classes in the following table:

TABLE 26.—SHIPBUILDING, INCLUDING BOAT BUILDING: 1919 AND 1916.

	1919		1916	
	Number.	Gross tonnage.	Number.	Gross tonnage.
Vessels, 5 gross tons and over, launched during the year	33	70,556	36	63,724
Steel	14	69,595	8	62,559
Steam	14	69,595	8	62,559
Unrigged	.....	.....	.....	.....
Wood	19	961	28	1,165
Motor	14	401	12	183
Unrigged	5	560	16	982
Power boats, less than 5 gross tons	15	.....	21	.....

Nearly all of the tonnage launched in Virginia in 1919 and 1916 was iron and steel. Of the wooden tonnage launched, over one-half was unrigged. Of the 14 iron and steel vessels launched in 1919, 5 were freight vessels of an average gross tonnage of 6,107, 5 were destroyers built for the United States Government, and 4 were oil tankers of 8,246 gross tonnage each. The freight vessels were launched at Alexandria, and the destroyers and tankers at Newport News. There were more vessels under construction during the year than were launched. The Alexandria plant had 7 vessels with 43,036 gross tonnage on the ways at the close of the year, and the Newport News plant had 8 merchant and 9 naval vessels of 282,744 displacement tonnage. The statistics of values can not be given without disclosing the operations of individual establishments.

Laundries (Table 27.)—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 27, however, summarizes the statistics for such laundries in the state of Virginia for 1919 and 1914.

TABLE 27.—POWER LAUNDRIES: 1919 AND 1914.

	Number or amount.		Per cent of increase,[1] 1914-1919.
	1919	1914	
Number of establishments	63	71	.....
Persons engaged	2,674	1,965	36.1
Proprietors and firm members	51	76	.....
Salaried employees	256	195	31.3
Wage earners (average number)	2,367	1,694	39.7
Primary horsepower	1,989	1,918	3.7
Capital	$1,724,255	$1,055,152	63.4
Salaries and wages	1,436,770	691,603	107.7
Salaries	326,067	167,266	94.9
Wages	1,110,703	524,337	111.8
Paid for contract work	200	16,503	−98.8
Rent and taxes	89,958	38,532	133.5
Cost of materials	658,519	285,809	130.4
Amount received for work done	3,009,759	1,453,912	107.0

[1] A minus sign (−) denotes decrease; percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 28).—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 the hand trades, household industries, etc.

TABLE 28.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments	30
Persons engaged	371
Proprietors and firm members	23
Salaried employees	67
Wage earners (average number)	281
Primary horsepower	406
Capital	$426,901
Salaries and wages	281,469
Salaries	58,941
Wages	222,528
Rent and taxes	26,405
Cost of materials	138,208
Amount received for work done	698,898

Custom sawmills and gristmills (Tables 29 and 30).—Statistics for custom sawmills and custom gristmills 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 29 and 30, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed, and that for custom gristmills the selling value of the grain milled.

There were a number of small custom sawmills in 1919, also grinding grain. Separate accounts were not kept and it was not practicable to segregate the two industries. The cost of materials and value of products of these custom sawmills include, therefore, the cost of the grain used and the value of the flour or grist produced. This fact accounts to some extent for the large increase in cost of materials reported.

TABLE 29.—CUSTOM SAWMILLS: 1919 AND 1909.

	Number or amount.		Per cent of increase,[1] 1909-1919.
	1919	1909	
Number of establishments	400	284	40.8
Persons engaged	691	1,091	−36.4
Proprietors and firm members	511	415	23.1
Wage earners (average number)	183	676	−72.9
Primary horsepower	6,665	4,609	44.6
Capital	$435,860	$350,535	24.3
Wages	105,859	119,433	−11.4
Rent and taxes	3,891	2,134	82.3
Cost of materials[2]	28,608	5,482	([3])
Amount received for work done[2]	305,336	296,668	2.9

[1] A minus sign (−) denotes decrease.
[2] Includes estimate of grain ground.
[3] Figures not comparable.

TABLE 30.—CUSTOM GRISTMILLS: 1919 AND 1909.

	Number or amount.		Per cent of increase,[1] 1909-1919.
	1919	1909	
Number of establishments	788	1,261	−37.5
Persons engaged	1,141	2,396	−52.4
Proprietors and firm members	972	1,525	−36.3
Salaried employees	13	9	.....
Wage earners (average number)	156	862	−81.9
Primary horsepower	14,687	20,716	−29.1
Capital	$2,585,463	$2,439,564	6.0
Salaries and wages	141,441	143,191	−1.2
Salaries	11,318	4,370	159.0
Wages	130,123	138,821	−6.3
Rent and taxes	22,802	18,103	26.0
Cost of materials[2]	4,842,886	3,824,256	26.6
Value of products[2]	6,124,986	4,683,631	30.8

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

GENERAL TABLES.

Table 31 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 selected industries in the state and in Norfolk and Richmond, and for Portsmouth and Roanoke, and for cities having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined, except for Newport News, statistics for which can not be given without disclosing the operations of individual establishments.

Table 32 presents, for 1919, in the state as a whole and in Norfolk, Portsmouth, Richmond, and Roanoke, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants, exclusive of Newport News.

TABLE 31.—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.		
THE STATE.—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.							
All industries	1919	5,603	119,352	419,946	$120,006	$371,541	$643,512
	1914	5,508	102,820	337,567	44,873	155,320	264,039
	1909	5,685	105,676	283,928	38,154	125,583	219,794
Agricultural implements	1919	14	239	507	242	369	926
	1914	20	269	539	122	168	484
	1909	16	272	503	117	244	516
Boxes, paper and other, not elsewhere specified.	1919	16	631	565	384	852	1,708
	1914	14	499	406	151	289	726
	1909	10	558	193	128	153	413
Bread and other bakery products.	1919	125	1,262	1,514	1,233	7,020	11,002
	1914	140	1,033	1,161	559	2,188	3,697
	1909	135	870	761	418	1,721	2,766
Brick, sewer pipe, and drain-tile.	1919	45	1,331	3,967	1,085	850	2,738
	1914	64	1,663	5,852	614	513	1,493
	1909	86	2,090	5,540	732	510	1,922
Butter	1919	20	94	440	79	1,105	1,535
	1914	13	90	245	48	476	608
	1909	8	10	135	4	35	44
Canning and preserving [1]	1919	498	2,123	7,853	837	3,813	5,505
	1914	443	2,169	3,907	360	1,632	2,360
	1909	325	1,860	1,382	277	1,208	1,854
Carriages and wagons, including repairs.	1919	63	777	1,042	741	2,215	4,054
	1914	113	1,066	1,629	518	1,361	2,464
	1909	121	1,091	1,209	451	1,159	2,223
Cars and general shop construction and repairs by electric-railroad companies.	1919	10	407	638	335	361	831
	1914	11	317	458	207	156	426
	1909	7	117	121	72	82	162
Cars and general shop construction and repairs by steam-railroad companies.	1919	31	12,086	19,081	16,725	14,333	32,777
	1914	32	10,375	6,980	6,607	10,762	18,216
	1909	28	7,588	6,412	4,082	5,255	9,956
Clothing, men's, including shirts.	1919	33	2,432	1,043	2,215	6,932	11,961
	1914	32	1,282	340	383	1,792	2,765
	1909	23	1,160	346	288	1,160	1,819
Coffee, roasting and grinding.	1919	11	104	360	75	2,642	3,228
	1914	9	75	281	29	918	1,137
	1909	10	78	263	36	925	1,206
Coke, not including gas-house coke.	1919	13	849	1,243	1,085	3,935	5,524
	1914	11	852	2,057	384	1,070	1,607
	1909	16	1,425	1,760	543	1,818	2,416
Confectionery and ice cream	1919	76	855	2,272	715	4,010	6,692
	1914	66	617	1,089	236	1,832	2,713
Cooperage, hogsheads and barrels.	1919	109	661	1,002	458	1,446	2,209
	1914	110	1,390	1,340	480	1,409	2,231
	1909	114	788	1,236	251	662	1,090
Copper, tin, and sheet-iron work. [2]	1919	47	801	623	746	2,967	4,556
	1914	37	528	499	265	1,002	1,632
	1909	43	818	296	361	1,061	2,048
Cotton goods	1919	10	6,518	38,963	6,077	17,544	32,535
	1914	9	6,310	34,220	2,174	6,057	10,216
	1909	10	5,057	19,750	1,480	4,699	7,490
Dyestuffs and extracts—natural.	1919	17	1,002	10,038	1,090	4,932	9,426
	1914	13	429	4,309	161	1,138	1,677
	1909	14	346	4,209	123	686	1,200
Fertilizers	1919	43	2,354	13,260	2,456	14,198	22,891
	1914	57	2,470	19,577	1,051	7,996	11,350
	1909	45	1,956	5,560	760	5,389	8,035
Flour-mill and gristmill products.	1919	537	937	22,632	826	30,928	36,154
	1914	533	1,082	23,086	463	15,390	18,084
	1909	458	1,014	21,454	398	15,164	17,598
Foundry and machine-shop products. [3]	1919	230	3,860	8,511	5,004	6,287	15,122
	1914	103	2,444	7,828	1,413	3,565	6,906
	1909	110	2,798	4,012	1,385	3,148	5,727
Furniture	1919	38	1,296	2,438	$1,105	$2,548	$5,043
	1914	38	1,221	2,783	520	1,080	2,085
	1909	34	990	2,326	349	724	1,438
Gas, illuminating and heating.	1919	17	475	1,275	667	1,457	3,149
	1914	22	533	1,488	306	750	2,150
	1909	21	378	1,116	217	431	1,472
Glass	1919	4	641	611	394	332	831
	1914	4	606	286	328	258	690
	1909	5	524	245	306	251	682
Grease and tallow, not including lubricating greases.	1919	7	251	1,073	319	1,687	2,429
	1914	5	213	793	106	469	671
	1909	3	134	225	61	155	220
Ice, manufactured	1919	106	969	18,670	976	1,198	3,965
	1914	87	714	13,057	378	501	1,796
	1909	74	475	8,553	220	268	1,143
Iron and steel, blast furnaces.	1919	12	1,081	19,855	1,027	8,270	10,098
	1914	8	689	15,210	352	3,282	3,772
	1909	14	1,320	17,320	546	4,418	5,389
Knit goods	1919	10	1,578	1,459	1,002	2,902	4,685
	1914	13	2,272	1,343	751	2,108	3,516
	1909	11	1,715	1,079	503	1,467	2,463
Leather goods [4]	1919	48	1,928	1,686	1,908	5,022	10,123
	1914	51	1,428	1,105	624	1,943	3,464
	1909	31	1,487	958	527	1,901	3,492
Leather, tanned, curried, and finished.	1919	21	1,666	5,341	1,573	16,216	21,591
	1914	21	1,205	3,648	525	8,218	9,834
	1909	39	1,590	4,223	589	6,445	8,267
Lime	1919	37	750	3,149	587	730	1,875
	1914	34	694	1,729	273	471	995
	1909	35	716	924	232	300	856
Lumber and timber products. [5]	1919	2,110	20,533	81,751	17,121	24,228	56,394
	1914	2,218	20,307	85,754	9,621	13,365	32,449
	1909	2,617	33,287	99,474	9,962	13,982	35,855
Marble and stone work	1919	66	441	1,176	400	485	1,149
	1914	76	1,260	3,676	568	388	1,404
	1909	70	1,585	4,553	651	351	1,306
Mattresses and spring beds, not elsewhere specified.	1919	20	162	317	134	511	867
	1914	22	159	283	75	227	445
	1909	18	103	181	41	129	244
Mineral and soda waters	1919	100	427	1,228	393	2,426	4,340
	1914	88	290	465	123	581	1,197
	1909	76	222	227	78	275	622
Minerals and earths, ground or otherwise treated.	1919	18	752	4,560	614	430	1,543
	1914	6	75	850	38	47	107
Paints	1919	10	104	393	104	714	1,142
	1914	4	46	190	21	114	184
Paper and wood pulp	1919	10	1,951	15,367	1,958	7,796	13,602
	1914	8	1,260	13,585	692	3,424	5,501
	1909	9	912	9,770	412	2,148	3,657
Paving materials	1919	24	586	3,961	511	429	1,208
	1914	21	642	2,110	280	555	1,135
Peanuts, grading, roasting, cleaning, and shelling.	1919	28	1,528	4,234	830	20,049	23,162
	1914	25	1,505	2,973	328	9,518	10,989
	1909	25	1,516	2,271	258	7,126	7,933
Printing and publishing [6]	1919	380	2,719	2,986	2,817	4,536	13,162
	1914	396	2,790	2,881	1,596	2,067	7,070
	1909	369	2,555	2,210	1,307	1,405	5,370
Silk goods, including throwsters.	1919	10	661	1,811	367	609	1,551
	1914	9	691	1,798	210	1,094	1,773
	1909	7	819	1,858	261	1,011	1,544
Slaughtering and meat packing.	1919	25	502	3,073	456	6,228	7,589
	1914	21	396	3,084	212	3,725	4,362
	1909	24	342	1,491	118	4,057	4,601

[1] Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces," in all years; and "canning and preserving, oysters," in 1914 and 1909.

[2] Includes "tinware, not elsewhere specified."

[3] Includes "automobile repairing"; "iron and steel, cast-iron pipe"; "iron and steel, welding"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts," in all years; "gas machines and gas and water meters" in 1914 and 1909; "hardware," in 1919 and 1909; and "engines, steam, gas, and water"; "plumbers' supplies, not elsewhere specified"; and "pumps, steam," in 1919.

[4] Includes "saddlery and harness" and "trunks and valises."

[5] Includes "boxes, wooden packing, except cigar boxes", and "lumber, planing-mill products, not including planing mills connected with sawmills."

[6] Includes "bookbinding and blank-book making" and "engraving, steel and copper plate, including plate printing," in all years; and "lithographing" in 1914 and 1909.

TABLE 31.—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.		
Stoves and ranges	1919	5	331	498	$362	$539	$1,396
	1914	5	324	555	208	187	528
	1909	9	363	464	206	242	683
Tobacco manufactures	1919	63	9,413	5,371	6,515	45,611	78,350
	1914	76	6,308	3,259	2,165	12,102	30,096
	1909	104	7,882	3,591	2,162	11,189	25,385
Vinegar and cider	1919	11	160	403	134	913	1,227
	1914	12	27	123	12	185	271
	1909	28	32	286	10	213	358
Wood, turned and carved	1919	17	218	1,031	$173	$322	$607
	1914	19	223	1,223	74	138	340
	1909	19	135	737	38	71	151
Woolen goods	1919	12	630	1,405	469	1,538	2,693
	1914	12	431	911	168	420	790
	1909	16	512	1,352	176	567	999
All other industries	1919	446	28,273	98,670	34,632	87,076	158,367
	1914	377	15,551	56,602	8,094	28,389	45,633
	1909	382	16,156	43,352	7,018	21,378	37,179

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.		
NORFOLK All industries.	1919	207	5,119	15,083	$5,982	$15,622	$29,588
	1914	209	5,263	12,156	2,258	7,320	13,710
	1909	215	4,749	20,408	2,041	5,482	10,341
Bread and other bakery products.	1919	18	290	347	330	2,151	3,299
	1914	15	199	259	129	530	836
	1909	17	178	210	95	350	595
Copper, tin, and sheet-iron work.	1919	5	50	9	42	81	190
	1914	3	18	2	12	11	38
Foundry and machine-shop products.[1]	1919	10	303	399	629	474	1,628
	1914	11	181	302	128	95	358
	1909	12	194	248	134	88	316
Ice, manufactured	1919	8	155	3,887	208	263	838
	1914	8	108	3,572	86	115	419
	1909	6	79	1,500	43	63	225
Lumber and timber products.[2]	1919	13	632	2,368	564	2,096	3,237
	1914	13	919	2,672	368	1,033	1,912
	1909	13	1,052	14,082	498	748	1,515
Mineral and soda waters	1919	8	77	484	96	334	706
	1914	6	36	52	14	93	178
	1909	5	27	22	13	63	127
Printing and publishing [3]	1919	31	245	457	346	688	2,165
	1914	35	224	296	155	247	849
	1909	33	251	255	155	151	684
All other industries	1919	114	3,367	7,131	3,767	9,535	17,525
	1914	118	3,578	5,001	1,366	5,196	9,120
	1909	129	2,968	4,091	1,103	4,019	6,879
PORTSMOUTH[4] All industries.	1919	48	2,237	7,573	2,300	5,076	9,376
	1914	42	767	2,664	347	1,017	1,731
	1909	31	842	1,777	307	776	1,528
RICHMOND All industries.	1919	550	21,759	40,828	19,843	89,444	156,724
	1914	466	17,282	33,940	8,440	30,559	62,491
	1909	380	14,849	20,087	5,821	24,252	47,358
Boxes, paper and other, not elsewhere specified.	1919	11	409	419	249	528	1,086
	1914	9	360	301	110	129	501
	1909	6	444	160	99	90	276
Bread and other bakery products.	1919	21	572	702	502	2,604	4,364
	1914	21	446	459	231	925	1,615
	1909	23	408	334	191	839	1,291
RICHMOND—Con.							
Carriages and wagons, including repairs.	1919	12	84	61	$96	$89	$252
	1914	19	117	101	79	96	257
	1909	14	124	53	71	104	286
Cars and general shop construction and repairs by steam-railroad companies.	1919	4	1,778	759	2,609	3,445	6,349
	1914	4	1,981	1,854	1,312	1,037	2,618
Confectionery and icecream[5]	1919	14	277	679	237	1,258	2,322
	1914	22	214	516	95	630	1,093
Copper, tin, and sheet-iron work.	1919	16	122	32	157	205	483
	1914	10	60	22	40	51	111
Furniture	1919	6	191	207	230	271	697
	1914	8	205	173	135	127	302
Ice, manufactured	1919	8	119	2,860	140	202	552
	1914	8	94	2,003	51	71	286
	1909	6	60	1,452	33	37	199
Lumber, planing-mill products, not including planing mills connected with sawmills.[6]	1919	14	976	2,121	886	2,231	3,856
	1914	17	689	2,410	370	716	1,319
	1909	15	632	1,726	286	656	1,187
Marble and stone work, except slate.	1919	13	43	158	45	58	136
	1914	13	71	130	53	32	113
	1909	9	53	54	36	34	92
Mineral and carbonated waters.	1919	7	50	186	53	567	1,069
	1914	10	47	62	29	151	271
	1909	7	23	17	12	25	64
Printing and publishing [7]	1919	102	1,403	1,360	1,508	2,576	7,072
	1914	103	1,334	1,479	758	1,213	3,811
	1909	82	1,089	941	585	732	2,786
Tobacco manufactures	1919	15	6,608	3,584	4,944	36,574	66,448
	1914	16	4,310	1,899	1,520	9,485	24,857
All other industries	1919	307	9,127	27,700	8,137	38,821	62,038
	1914	206	7,354	22,501	3,657	15,896	25,337
	1909	218	12,016	15,350	4,508	21,735	41,177
ROANOKE[4] All industries.	1919	99	7,740	14,275	8,807	15,550	34,864
	1914	73	5,496	11,708	3,326	11,198	16,582
	1909	62	3,544	6,774	1,718	4,044	7,261

CITIES OF 10,000 TO 50,000 INHABITANTS.[8]—ALL INDUSTRIES COMBINED.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
ALEXANDRIA	1919	35	4,012	3,940	$5,446	$7,782	$16,908
	1914	49	1,504	3,375	358	1,960	3,660
	1909	54	1,470	3,250	697	2,731	4,420
DANVILLE	1919	44	5,827	29,752	5,611	16,291	30,183
	1914	43	2,691	7,209	1,042	3,212	5,558
	1909	52	3,076	4,634	963	3,236	5,389
LYNCHBURG	1919	65	4,486	8,549	4,467	16,083	27,450
	1914	73	3,474	6,505	1,545	6,511	9,919
	1909	82	4,026	7,952	1,544	6,468	10,188
PETERSBURG	1919	116	4,891	7,106	$3,791	$18,298	$26,440
	1914	87	3,903	6,549	1,392	8,393	12,610
	1909	72	3,887	5,239	1,107	5,759	8,896
STAUNTON	1919	54	473	1,029	279	1,904	2,567
	1914	45	346	850	149	1,087	1,448
	1909	44	339	601	118	896	1,223

[1] Includes "structural ironwork, not made in steel works or rolling mills," in all years, and "automobile repairing" in 1919.
[2] Includes "boxes, wooden packing, except cigar boxes" and "lumber, planing-mill products, not including planing mills connected with sawmills."
[3] Includes "engraving, steel and copper plate, including plate printing," in 1914 and 1909.
[4] Comparative statistics by industries for 1914 and 1909 not available.
[5] Includes "chewing gum" in 1914.
[6] Includes "boxes, wooden packing, except cigar boxes," in 1919 and 1914.
[7] Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
[8] Statistics for Newport News are omitted to avoid disclosure of individual operations.

TABLE 32.—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	5,603	139,178	5,900	6,139	5,636	2,151	119,352	Oc 131,916	Ja 111,943	(3)	(3)	(3)	(3)	(3)	Dollars. 463,644,498
2	Agricultural implements	14	283	4	22	12	6	239	Ja 282	Je 188	254	253	.....	1	.....	836,232
3	Artificial stone products	10	43	11	3	.....	.....	29	Mh 41	De 21	45	45	.....	.....	.....	52,532
4	Automobile bodies and parts	19	168	14	16	7	5	126	Oc 141	Ja[4] 105	137	110	27	.....	.....	370,484
5	Automobile repairing	116	582	146	23	20	17	376	Se 392	Ja 357	394	392	2	.....	.....	820,617
6	Awnings, tents, and sails	12	110	12	10	3	4	81	Je 109	Ja[4] 66	73	52	21	.....	.....	235,787
7	Bags, other than paper, not including bags made in textile mills.	13	496	12	15	19	9	441	De 513	My 390	513	248	259	3	3	1,221,034
8	Bookbinding and blank-book making	4	56	6	.....	2	.....	42	My[4] 47	Ja 36	44	17	27	.....	.....	56,070
9	Boxes, paper and other, not elsewhere specified.	16	707	6	46	9	15	631	De 689	Ap 578	691	322	346	7	16	1,012,817
10	Boxes, wooden packing, except cigar boxes.	34	2,692	8	91	36	23	2,534	Oc 2,713	Au 2,253	2,730	2,218	482	23	7	6,622,701
11	Bread and other bakery products	125	1,695	123	80	179	51	1,262	De 1,347	Fe 1,122	1,351	1,084	252	11	4	3,753,332
12	Brick, sewer pipe, and drain tile	45	1,471	38	72	19	11	1,331	Se 1,663	Ja 899	1,592	1,592	.....	.....	.....	2,580,290
13	Brooms	20	101	21	7	3	.....	70	De 94	Mh 44	95	79	12	4	.....	159,975
14	Butter	20	130	6	17	7	6	94	Au 101	Fe[4] 87	92	91	1	.....	.....	408,063
15	Canning and preserving, fish	18	238	25	8	3	1	201	Ap 370	Mh 48	624	472	152	.....	.....	430,574
16	Canning and preserving, fruits and vegetables.	473	3,491	716	919	13	7	1,836	.....	.....	9,026	3,003	5,596	177	250	2,319,063
17	Canned vegetables	439	3,305	677	907	12	3	1,706	Se 6,630	Ja 2	8,419	2,753	5,249	175	242	2,140,462
18	Canned fruits	28	159	34	10	1	4	101	Se 452	Jy 10	473	203	260	2	8	135,501
19	Dried fruits	6	36	5	2	.....	.....	29	Oc[4] 121	Se 106	134	47	87	.....	.....	43,100
20	Carriages and wagons, including repairs.	63	943	79	35	32	20	777	.....	.....	874	856	16	2	.....	2,725,562
21	Carriages and wagons	42	843	55	31	30	19	708	De 798	Ap 628	800	782	16	2	.....	2,591,602
22	Repair work only	21	100	24	4	2	1	69	Au 75	Mh 64	74	74	.....	.....	.....	133,960
23	Cars and general shop construction and repairs by electric-railroad companies.	10	422	.....	13	1	1	407	De 427	Ja 377	434	432	2	.....	.....	629,483
24	Cars and general shop construction and repairs by steam-railroad companies.	31	12,914	.....	370	398	60	12,086	De 13,022	Je 11,090	13,023	12,978	45	.....	.....	16,561,310
25	Chemicals	12	2,040	1	78	72	42	1,847	No 2,118	Mh 1,544	1,996	1,602	382	1	11	13,885,365
26	Cleansing and polishing preparations	4	8	2	1	.....	.....	5	Jy[4] 6	No[4] 4	6	5	1	.....	.....	24,602
27	Clothing, men's	28	2,644	16	57	153	113	2,305	.....	.....	2,594	278	2,278	7	31	7,468,372
28	Regular factory products	25	2,393	15	52	153	111	2,062	De[4] 2,387	Ja 1,676	2,319	250	2,036	7	26	7,305,202
29	Contract work	3	251	1	5	.....	2	243	De 274	Ja 214	275	28	242	.....	5	163,110
30	Coffee, roasting and grinding	11	191	4	17	58	8	104	Oc[4] 109	Se[4] 101	105	68	37	.....	.....	594,754
31	Coffins, burial cases, and undertakers' goods.	6	113	4	7	12	4	86	Mh 97	Je[4] 82	83	72	6	5	.....	346,162
32	Coke, not including gas-house coke	13	922	.....	31	38	4	849	Ja 929	My 774	902	902	.....	.....	.....	5,152,665
33	Confectionery and ice cream	76	1,149	54	99	98	43	855	.....	.....	866	550	316	.....	.....	3,627,656
34	Confectionery	31	675	14	58	66	19	518	De 578	Jy 485	575	272	303	.....	.....	1,801,768
35	Ice cream	45	474	40	41	32	24	337	Jy 416	Ja 265	291	278	13	.....	.....	1,825,888
36	Cooperage, hogsheads and barrels	109	806	109	24	7	5	661	Se 793	Fe 527	806	685	120	1	.....	1,056,053
37	Copper, tin, and sheet-iron work	39	314	41	20	16	8	229	Au 244	Fe[4] 213	260	258	.....	2	.....	544,009
38	Cordials and flavoring sirups	6	71	1	12	18	9	31	Mh 35	Oc 28	35	29	6	.....	.....	388,580
39	Cotton goods	10	6,635	.....	49	56	12	6,518	De 6,871	Ja 6,072	6,896	4,284	2,437	90	85	33,731,798
40	Dental goods	5	17	4	1	.....	1	11	(5) 11	(5) 11	14	14	.....	.....	.....	7,973
41	Druggists' preparations	9	34	7	7	2	.....	18	Oc 20	Fe 16	20	8	12	.....	.....	80,841
42	Dyestuffs and extracts—natural	17	1,112	5	55	33	17	1,002	Jy 1,060	Ap 925	971	971	.....	.....	.....	6,527,445
43	Engraving, steel and copper plate, including plate printing.	5	24	4	1	.....	1	18	My[4] 19	Fe[4] 16	19	11	5	1	2	15,624
44	Fertilizers	43	2,768	7	140	219	48	2,354	Ap 3,029	De 1,841	3,279	3,221	58	.....	.....	25,710,704
45	Flour-mill and gristmill products	537	1,037	695	161	89	55	937	Se 994	Ap 891	970	966	2	2	.....	23,523,479
46	Food preparations, not elsewhere specified.	22	352	23	30	40	14	245	De 288	Je 207	269	246	23	.....	.....	4,777,089
47	Foundry and machine-shop products	86	2,011	76	115	79	35	1,706	.....	.....	1,958	1,949	3	6	.....	4,429,445
48	Boiler shops and foundries	23	410	19	19	18	6	348	Jy 407	My 192	381	380	.....	1	.....	655,468
49	Machine shops	46	1,210	44	68	44	22	1,032	Ja 1,161	My 886	1,107	1,101	1	5	.....	2,778,755
50	Machine shop and foundry combined.	17	391	13	28	17	7	326	De 448	My 216	470	468	2	.....	.....	995,222
51	Furniture	38	1,517	35	70	68	48	1,296	.....	.....	1,505	1,345	74	75	11	3,089,106
52	Wood, other than rattan and willow.	31	1,354	30	55	63	42	1,164	De 1,352	Ja 1,005	1,357	1,197	74	75	11	2,882,936
53	Store and office fixtures	7	163	5	15	5	6	132	Mh 140	Je 125	148	148	.....	.....	.....	206,170
54	Gas, illuminating and heating	17	583	.....	38	29	41	475	Ja 532	Ap 443	496	496	.....	.....	.....	9,800,819
55	Glass	4	668	.....	18	7	2	641	Jy 700	Ja 524	685	563	118	4	.....	947,837
56	Gloves and mittens, leather	4	81	8	7	3	1	62	No 74	Fe[4] 49	69	24	40	1	4	123,274
57	Grease and tallow, not including lubricating greases.	7	287	2	16	13	5	251	Ap 277	Fe 234	247	245	2	.....	.....	945,384
58	Hand stamps	3	29	5	.....	3	1	20	(5) 20	(5) 20	20	19	.....	1	.....	46,060
59	Ice, manufactured	106	1,227	58	127	49	24	969	Jy 1,459	Fe 641	983	958	21	4	.....	8,132,158
60	Iron and steel, blast furnaces	12	1,160	.....	35	38	6	1,081	Ja 1,748	Je 687	1,604	1,600	.....	4	.....	12,455,938
61	Iron and steel, welding	8	30	10	.....	2	.....	18	Je[4] 19	Ja[4] 17	19	19	.....	.....	.....	17,050
62	Knit goods	10	1,649	2	40	18	11	1,578	No 1,831	Fe 1,207	1,785	499	1,165	58	63	3,870,341
63	Leather, tanned, curried, and finished	21	1,875	6	57	114	32	1,666	Au 1,819	Ja 1,494	1,729	1,718	10	1	.....	19,971,296
64	Lime	37	851	15	57	17	12	750	Ap 854	Fe 684	812	793	.....	19	.....	2,307,420
65	Lumber and timber products	1,931	19,131	2,431	386	261	93	15,960	De 21,081	Fe 13,165	25,364	25,215	100	49	.....	25,875,816
66	Lumber, planing-mill products, not including planing mills connected with sawmills.	145	2,476	123	170	108	36	2,039	No 2,269	Ja 1,736	2,272	2,253	16	3	.....	7,857,741
67	Marble and stone work	66	559	72	26	15	5	441	.....	.....	462	462	.....	.....	.....	917,247
68	Monuments and tombstones	55	252	66	10	11	3	162	Jy[4] 171	Ja 144	167	167	.....	.....	.....	557,804
69	Other marble and stone work, except slate.	7	83	6	6	1	1	69	Ap 72	No 61	69	69	.....	.....	.....	70,419
70	Roofing slate	4	224	.....	10	3	1	210	Au 234	Ja 163	226	226	.....	.....	.....	289,024

[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.						Electric horsepower generated in establishments reporting.
												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]		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
15,286,404	10,621,680	120,006,452	2,848,581	1,746,148	34,699,686	352,059,572	19,481,261	643,511,621	271,970,788	419,946	211,816	44,950	9,067	39,087	115,026	73,637	1
69,814	18,839	241,871	1,200	7,045	43,863	347,524	21,193	926,019	557,302	507	100	.....	27	14	366	.....	2
4,026	.....	23,409	.....	971	1,226	30,148	788	83,761	52,825	74	40	.....	12	.....	22	.....	3
24,677	7,118	113,483	374	8,248	2,080	303,679	4,714	527,053	218,660	124	.....	.....	8	3	113	.....	4
32,440	36,729	423,183	.....	55,142	13,502	781,738	18,928	1,640,891	840,225	409	.....	.....	87	.....	322	3	5
33,260	5,625	95,691	.....	7,390	2,217	297,932	1,397	547,416	248,087	46	.....	.....	.....	.....	46	.....	6
38,717	26,610	221,318	4,250	8,207	45,672	4,216,655	8,968	4,840,831	615,208	269	110	.....	.....	.....	159	.....	7
.....	2,200	35,297	.....	1,332	161	20,838	1,448	83,205	60,919	23	.....	.....	.....	.....	23	.....	8
101,870	21,367	383,859	.....	26,560	24,380	837,070	14,493	1,708,371	856,799	565	85	.....	10	.....	470	2	9
323,655	99,104	1,775,426	35,104	18,279	153,546	5,894,889	24,584	9,231,697	3,312,224	7,744	5,941	49	34	.....	1,720	5	10
224,683	354,705	1,233,469	1,034	47,260	156,409	6,881,635	137,899	11,002,219	3,982,685	1,514	109	.....	9	.....	1,396	.....	11
166,940	35,691	1,085,271	2,650	1,985	47,230	268,381	582,106	2,738,208	1,887,811	3,967	3,551	.....	60	.....	356	40	12
10,140	7,709	54,909	.....	1,822	625	183,419	2,035	315,456	130,002	61	.....	.....	14	.....	47	.....	13
24,669	11,329	78,916	50	4,570	5,333	1,082,030	23,266	1,535,290	429,994	440	85	.....	.....	.....	355	10	14
12,396	3,780	145,271	2,326	335	9,437	346,956	25,504	609,995	237,535	1,337	1,294	.....	42	.....	1	340	15
55,930	7,937	647,609	13,052	11,374	13,904	3,077,633	69,253	4,427,441	1,280,555	6,379	6,141	40	119	.....	79	2	16
51,170	7,497	599,469	12,590	10,333	13,413	2,865,263	56,935	4,070,715	1,148,517	5,841	5,655	40	90	.....	56	2	17
3,935	440	29,471	12	741	325	125,640	2,341	212,107	84,126	503	486	.....	9	.....	8	.....	18
825	.....	18,669	450	300	166	86,730	9,977	144,619	47,912	35	.....	.....	20	.....	15	.....	19
129,995	128,875	740,773	.....	18,275	286,140	2,181,173	33,555	4,054,170	1,839,442	1,042	379	.....	69	.....	594	30	20
122,915	125,635	665,690	.....	14,032	284,590	2,095,652	30,243	3,823,625	1,697,730	913	364	.....	55	.....	494	30	21
7,080	3,240	75,083	.....	4,243	1,550	85,521	3,312	230,545	141,712	129	15	.....	14	.....	100	.....	22
75,439	2,042	385,116	.....	1,000	7,156	358,931	2,093	830,937	469,913	638	.....	.....	.....	.....	638	.....	23
1,147,917	530,221	16,724,737	.....	.....	120,339	13,692,816	640,095	32,777,078	18,444,167	19,081	5,160	2,681	.....	.....	11,240	10,927	24
238,204	166,410	1,942,627	.....	7,405	2,838,916	2,736,939	968,469	12,765,281	9,059,873	11,862	4,240	2,900	.....	.....	4,722	5,300	25
600	.....	6,768	.....	3,073	288	13,510	201	29,767	16,056	11	.....	.....	.....	.....	11	.....	26
276,267	452,338	2,157,586	93,411	18,156	480,986	6,837,208	32,716	11,816,100	4,940,176	981	65	.....	.....	.....	916	28	27
257,767	450,538	2,041,044	93,411	17,518	480,759	6,821,457	29,581	11,653,482	4,802,444	948	65	.....	.....	.....	883	28	28
18,500	1,800	116,542	.....	638	227	15,751	3,135	156,618	137,732	33	.....	.....	.....	.....	33	.....	29
34,749	77,570	74,746	.....	9,630	53,743	2,626,086	16,350	3,228,297	585,861	360	.....	.....	.....	.....	360	.....	30
25,570	24,205	93,076	.....	3,120	23,577	227,332	3,054	455,132	224,746	244	130	.....	10	.....	104	.....	31
76,892	66,302	1,084,572	.....	61,754	67,265	190,992	3,744,428	5,524,215	1,588,795	1,243	233	.....	.....	.....	1,010	201	32
364,953	217,988	715,121	14,249	58,674	313,234	3,894,087	116,108	6,691,649	2,681,454	2,272	552	.....	28	.....	1,692	5	33
221,159	153,646	328,414	14,149	32,658	198,527	1,883,723	31,402	3,270,459	1,355,334	792	415	.....	3	.....	374	3	34
143,794	64,342	386,707	100	26,016	114,707	2,010,364	84,706	3,421,190	1,326,126	1,480	137	.....	25	.....	1,318	2	35
34,985	15,154	457,688	550	3,041	6,683	1,441,060	4,797	2,209,006	763,149	1,002	945	.....	2	.....	55	.....	36
40,038	29,866	266,434	150	13,610	4,387	456,665	5,366	1,108,887	646,856	108	.....	.....	.....	.....	108	.....	37
26,169	60,840	27,314	.....	8,476	16,190	573,107	2,132	926,738	351,499	51	25	.....	.....	.....	26	.....	38
379,551	166,276	6,077,197	.....	14,000	3,101,047	17,132,814	411,159	32,534,934	14,990,961	38,963	5,206	17,929	.....	15,405	423	22,528	39
2,500	1,200	12,080	.....	1,777	16	23,363	186	52,659	29,110	7	.....	.....	.....	.....	7	.....	40
9,320	5,985	14,609	.....	2,600	8,480	44,299	1,543	129,314	83,472	.....	.....	.....	.....	.....	.....	.....	41
189,037	75,274	1,089,676	125,847	220	477,781	4,428,378	504,105	9,425,657	4,493,174	10,038	9,243	420	15	105	255	217	42
1,800	780	19,262	2,246	1,300	75	11,055	362	53,435	42,018	10	.....	.....	.....	.....	10	.....	43
480,229	455,051	2,456,294	42,292	5,064	1,089,945	13,915,308	282,886	22,891,353	8,693,159	13,260	7,576	.....	765	.....	4,919	458	44
305,359	176,381	825,687	21,039	33,231	230,608	30,691,260	236,582	36,154,105	5,226,263	22,632	3,622	215	2,731	11,523	4,541	263	45
84,012	85,023	238,849	658	12,165	29,200	9,209,305	59,554	10,205,290	936,431	1,879	694	.....	.....	.....	1,185	.....	46
472,180	149,512	2,473,366	15,187	76,789	190,508	1,976,475	117,482	6,351,877	4,257,920	3,157	386	.....	144	41	2,586	.....	47
73,078	31,680	533,270	75	48,531	3,898	368,060	31,734	1,243,229	843,435	644	42	.....	27	.....	575	.....	48
269,217	72,502	1,418,754	373	25,318	150,322	1,226,756	51,138	3,748,780	2,470,886	1,726	164	.....	42	25	1,495	.....	49
129,885	45,270	521,342	14,739	2,940	27,288	381,659	34,610	1,359,868	943,599	787	180	.....	75	16	516	.....	50
191,603	145,440	1,105,266	1,200	6,428	119,945	2,494,862	53,434	5,042,925	2,494,629	2,438	1,590	.....	26	.....	822	50	51
157,479	135,880	912,636	1,200	2,506	118,108	2,351,078	49,332	4,606,801	2,206,391	2,189	1,515	.....	26	.....	648	50	52
34,124	9,560	192,630	.....	3,922	1,837	143,784	4,102	436,124	288,238	249	75	.....	.....	.....	174	.....	53
74,864	86,822	667,166	9,586	5	88,065	139,997	1,316,630	3,149,476	1,692,849	1,875	1,044	556	.....	.....	275	50	54
41,505	11,940	393,636	.....	.....	9,973	236,796	94,723	831,455	499,936	611	220	.....	.....	.....	391	.....	55
12,876	3,611	31,181	2,618	1,320	667	190,404	543	252,118	61,171	13	.....	.....	.....	.....	13	.....	56
48,666	27,268	318,885	.....	.....	21,343	1,609,071	77,534	2,428,763	742,158	1,073	580	.....	.....	.....	493	7	57
.....	3,600	19,511	186	945	130	19,838	503	60,018	39,677	21	17	.....	.....	.....	4	.....	58
243,817	72,883	975,667	6,996	54,562	161,183	458,512	739,569	3,964,639	2,766,558	18,670	14,875	414	997	275	2,109	393	59
122,270	55,235	1,026,940	.....	354	171,164	4,417,554	3,852,611	10,097,816	1,827,651	19,855	14,835	4,870	.....	150	.....	1,089	60
.....	1,600	18,717	.....	3,705	149	11,225	2,500	54,377	40,652	20	.....	.....	.....	.....	20	.....	61
134,537	56,193	1,002,361	42,451	29,829	62,606	2,843,134	59,006	4,684,504	1,782,364	1,459	1,044	.....	.....	.....	415	3	62
249,902	275,647	1,573,237	73,814	3,000	360,371	16,030,069	185,965	21,590,902	5,374,868	5,341	4,104	135	.....	10	1,092	1,883	63
121,636	24,025	586,844	2,979	879	64,811	466,197	264,001	1,875,173	1,144,975	3,149	1,399	.....	9	.....	1,741	.....	64
835,124	415,650	13,412,695	1,240,646	46,855	424,179	10,439,370	225,586	35,388,875	24,723,919	64,501	60,246	1,396	667	556	1,636	610	65
475,410	194,617	1,933,039	26,259	22,958	299,298	7,582,698	61,120	11,773,016	4,129,198	9,506	6,658	.....	249	75	2,524	225	66
49,750	18,514	399,727	5,298	20,914	8,911	442,022	43,182	1,149,065	663,861	1,176	735	.....	36	.....	405	.....	67
20,680	13,295	188,184	5,148	9,625	4,345	384,328	9,042	816,859	423,489	399	.....	.....	36	.....	363	.....	68
12,280	2,500	59,052	150	3,458	1,806	50,241	17,643	129,138	61,254	332	290	.....	.....	.....	42	.....	69
16,790	2,719	152,491	.....	7,831	2,760	7,453	16,497	203,068	179,118	445	445	.....	.....	.....	.....	.....	70

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

TABLE 32.—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	Mattresses and spring beds, not elsewhere specified.	20	211	15	15	15	4	162	Oc 182	My 136	177	116	56	3	2	456,483
2	Millinery and lace goods, not elsewhere specified.	8	135	9	1	.....	6	119	Oc[3] 121	Jy 116	121	6	114	.....	1	63,993
3	Mineral and soda waters	100	703	88	84	85	19	427	.....	.....	452	419	24	9	.....	3,281,866
4	Mineral and carbonated waters	92	593	79	69	65	16	364	Jy 415	Ja 298	373	345	19	9	.....	2,070,127
5	Fruit beverages and all other	8	110	9	15	20	3	63	Oc 80	De[3] 55	79	74	5	.....	.....	1,211,739
6	Minerals and earths, ground or otherwise treated.	18	800	3	25	13	7	752	Se 851	Fe 636	735	732	.....	3	.....	3,154,598
7	Mirrors, framed and unframed, not elsewhere specified.	4	124	1	17	19	11	76	No[3] 82	Ja[3] 68	83	83	.....	.....	.....	171,613
8	Optical goods	9	128	2	12	14	11	89	Jy[3] 92	Ja[3] 86	91	77	14	.....	.....	130,525
9	Paints	10	162	3	21	21	13	104	Fe 108	My 98	107	106	1	.....	.....	1,088,074
10	Paper and wood pulp	10	2,127	.....	71	76	29	1,951	.....	.....	1,985	1,853	132	.....	.....	12,881,963
11	Paper only	6	685	.....	23	35	11	616	No 633	Ja 582	621	549	72	.....	.....	5,208,552
12	All other	4	1,442	.....	48	41	18	1,335	Se 1,417	Fe 1,183	1,364	1,304	60	.....	.....	7,673,411
13	Patent medicines and compounds	39	424	18	32	44	29	301	.....	.....	300	217	81	2	.....	1,551,762
14	Patent and proprietary medicines.	31	194	15	22	31	22	104	My 108	Fe 99	112	40	70	2	.....	597,939
15	Patent and proprietary compounds, not elsewhere specified.	8	230	3	10	13	7	197	My[3] 239	Oc 95	188	177	11	.....	.....	953,823
16	Paving materials	24	652	29	22	11	4	586	Jy 698	Fe 408	668	668	.....	.....	.....	729,527
17	Peanuts, grading, roasting, cleaning, and shelling.	28	1,697	11	80	53	25	1,528	De 1,870	Oc 1,060	1,889	680	1,197	2	10	6,392,979
18	Photo-engraving	5	39	2	6	1	3	27	De[3] 31	My[3] 25	31	29	1	1	.....	46,726
19	Pickles, preserves, and sauces	7	114	5	12	6	5	86	Se 120	Mh 58	112	56	39	7	10	257,016
20	Printing and publishing, book and job.	174	2,185	154	145	99	92	[1]1,695	.....	.....	1,754	1,081	546	101	26	5,590,917
21	Job printing	163	1,856	151	114	65	72	1,454	No 1,501	Mh 1,423	1,510	950	434	100	26	4,287,827
22	Book publishing and printing and linotype work.	7	298	3	25	16	13	241	No 245	Ap 237	244	131	112	1	.....	1,296,308
23	Book publishing without printing.	4	31	.....	6	18	7	.....	.....	.....	.....	.....	.....	.....	.....	6,782
24	Printing and publishing, newspapers and periodicals.	197	1,758	172	146	318	158	964	.....	.....	1,016	846	112	50	8	5,131,285
25	Printing and publishing	26	718	15	63	157	66	417	Je 429	Fe 399	434	378	30	26	.....	2,322,723
26	Printing, publishing, and job printing.	133	909	143	56	131	62	517	No 541	Fe 497	549	436	81	24	8	2,677,163
27	Publishing without printing	38	131	14	27	30	30	30	Oc 36	Mh 24	33	32	1	.....	.....	131,399
28	Roofing materials	4	45	1	8	.....	1	35	Au 44	Fe 28	40	40	.....	.....	.....	91,108
29	Saddlery and harness	33	380	33	25	56	41	225	De 248	Ja[3] 210	250	232	18	.....	.....	1,705,654
30	Shipbuilding, wooden, including boat building.	30	1,278	32	44	30	13	1,159	.....	.....	1,603	1,602	1	.....	.....	4,087,140
31	New vessels	11	755	9	31	24	8	683	Fe 1,177	No 437	1,175	1,175	.....	.....	.....	2,454,054
32	Repair work only	13	502	13	13	6	5	465	Ap 550	No 357	417	416	1	.....	.....	1,620,486
33	Small boats	6	21	10	.....	.....	.....	11	Au 13	No[3] 9	11	11	.....	.....	.....	12,600
34	Shirts	5	133	2	3	.....	1	127	Ja 158	My 97	154	6	144	.....	4	88,212
35	Signs, other than electric	4	51	4	2	8	3	34	Au 44	Ja[3] 24	51	46	5	.....	.....	48,580
36	Silk goods, including throwsters	10	717	3	34	7	12	661	.....	.....	713	237	428	20	28	869,111
37	Finished products	5	341	.....	21	6	7	307	De 331	Je 260	321	133	187	.....	1	379,405
38	Throwsters and winders	5	376	3	13	1	5	354	De 401	My[3] 331	392	104	241	20	27	489,706
39	Slaughtering and meat packing	25	629	24	43	45	15	502	Oc 588	No 440	599	549	50	.....	.....	3,156,150
40	Stoves and ranges	5	404	3	23	30	14	334	Se 365	Ja 294	359	359	.....	.....	.....	1,359,693
41	Structural ironwork, not made in steel works or rolling mills.	7	976	1	38	133	13	791	Ja 963	De 598	597	596	1	.....	.....	1,726,430
42	Tinware, not elsewhere specified	8	634	3	23	25	11	572	Ja 646	Ap 497	593	471	121	1	.....	2,414,094
43	Tobacco, chewing and smoking	14	2,403	5	115	154	51	2,078	.....	.....	2,186	1,190	979	9	8	15,307,559
44	Plug or chewing	8	1,271	5	47	20	12	1,187	Oc 1,329	Je 1,070	1,310	652	645	7	6	4,139,165
45	Smoking	6	1,132	.....	68	134	39	891	Oc 979	Mh 834	876	538	334	2	2	11,168,394
46	Tobacco, cigars and cigarettes	49	8,041	46	87	483	90	7,335	No 9,008	Ap 6,319	8,270	2,588	5,371	25	286	24,629,568
47	Trunks and valises	15	1,904	4	84	71	42	1,703	No 1,812	Ja 1,549	1,805	1,598	191	15	1	5,249,497
48	Upholstering materials, excelsior	17	228	29	16	5	4	174	De 203	Ja 146	216	203	13	.....	.....	487,064
49	Vinegar and cider	11	189	7	14	2	6	160	.....	.....	151	130	21	.....	.....	1,016,759
50	Vinegar	7	175	2	13	2	6	152	Oc 258	Mh 94	138	120	18	.....	.....	951,265
51	Cider	4	14	5	1	.....	.....	8	Oc[3] 13	Mh[3] 6	13	10	3	.....	.....	65,494
52	Wirework, not elsewhere specified	3	4	3	.....	.....	.....	1	(4) 1	(4) 1	1	1	.....	.....	.....	4,075
53	Wood preserving	4	175	.....	15	8	1	151	Je 189	De 94	144	144	.....	.....	.....	1,320,553
54	Wood, turned and carved	17	412	18	169	5	2	218	De 238	Ja[3] 206	264	258	.....	6	.....	351,885
55	Woolen goods	12	668	7	20	7	4	630	Oc 663	Mh 591	662	454	204	2	2	2,338,595
56	All other industries*	187	26,841	116	988	1,294	439	24,004	.....	.....	.....	.....	.....	.....	.....	87,416,515

*All other industries embrace—

Artificial limbs	2
Automobiles	2
Babbitt metal	2
Bags, paper, exclusive of those made in paper mills	1
Baking powders and yeast	2
Baskets, and rattan and willow ware.	3
Belting and hose, woven, other than rubber	1
Belting, leather	3
Billiard tables and accessories	1
Blacking, stains, and dressings	1
Bluing	1
Boot and shoe cut stock	1
Boots and shoes	5
Boxes, cigar	1
Brass and bronze products	2
Canning and preserving, oysters	1
Carriage and wagon materials	3
Cars, steam-railroad, not including operations of railroad companies	2
Cement	1
Cheese	2
Chewing gum	1
Clothing, women's	6
Coal-tar products	3
Condensed milk	1
Cordage and twine	1
Dairymen's and poultrymen's supplies	11
Drug grinding	1
Electrical machinery, apparatus, and supplies	5
Electroplating	2
Engines, steam, gas, and water	1
Engraving and diesinking	1
Envelopes	3
Fancy articles, not elsewhere specified	1
Ferroalloys	1
Fireworks	1
Flags and banners	2
Flavoring extracts	7
Fuel, briquetted	1
Fur goods	3
Glass, cutting, staining, and ornamenting	2
Hair work	1
Hardware	4
Hats and caps, other than felt, straw, and wool	2
Hats, straw	1
Ink, writing	1
Iron and steel, steel works and rolling mills	
Iron and steel, cast-iron pipe	
Iron and steel, doors and shutters	
Iron and steel, forgings, not made in steel works or rolling mills	3

[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.								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.[2]		
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.										
37,421	22,944	134,006	500	11,765	11,800	506,150	5,339	807,012	355,523	317	.....	.....	.....	.....	317	.....	1
2,139	3,107	79,119	.....	8,301	4,839	98,099	980	236,113	137,034	33	.....	.....	.....	.....	33	.....	2
199,864	195,094	392,613	16,624	35,642	235,066	2,369,751	56,171	4,340,107	1,914,185	1,228	260	.....	76	.....	892	.....	3
168,502	120,040	307,218	6,197	29,190	195,422	2,078,081	34,716	3,591,988	1,479,191	786	60	.....	72	.....	654	.....	4
31,362	75,054	85,395	10,427	6,452	39,644	291,670	21,455	748,119	434,994	442	200	.....	4	.....	238	.....	5
56,964	18,018	614,023	12,446	14,073	32,592	328,401	101,548	1,542,742	1,112,793	4,560	1,787	.....	6	1,402	1,365	1,505	6
19,144	5,500	31,154	.....	1,900	5,945	224,420	4,123	306,000	77,457	109	.....	.....	.....	.....	109	.....	7
34,340	23,508	82,492	.....	7,750	2,714	119,876	2,962	332,619	209,781	64	.....	.....	.....	.....	64	.....	8
78,246	48,555	103,539	1,500	6,010	13,828	685,918	28,127	1,141,775	427,730	393	160	.....	.....	30	203	.....	9
454,351	170,160	1,958,230	.....	80,388	498,419	7,051,937	743,737	13,602,264	5,806,590	15,367	6,321	6,575	225	1,865	381	8,694	10
122,960	86,596	540,373	.....	2,226	149,061	1,921,103	89,609	3,932,737	1,922,025	3,251	1,525	.....	225	1,315	186	.....	11
331,391	83,564	1,417,857	.....	78,162	349,368	5,130,834	654,128	9,669,527	3,884,565	12,116	4,796	6,575	.....	550	195	8,694	12
64,952	97,413	262,444	.....	20,558	325,191	831,411	31,036	1,871,789	1,009,342	570	500	.....	.....	1	69	8	13
34,219	69,575	60,718	.....	17,680	28,385	428,986	1,979	801,635	370,670	46	.....	.....	.....	.....	46	.....	14
30,733	27,838	201,726	.....	2,878	296,806	402,425	29,057	1,070,154	638,672	524	500	.....	.....	1	23	8	15
37,226	18,061	510,544	.....	19,298	4,906	328,668	100,262	1,207,691	778,761	3,961	2,733	810	103	.....	315	150	16
266,731	102,295	830,387	10,350	45,496	198,138	19,973,100	76,270	23,162,211	3,112,841	4,234	2,645	.....	.....	.....	1,589	198	17
7,170	3,052	45,516	250	2,291	263	19,552	2,180	105,971	84,239	26	.....	.....	.....	.....	26	.....	18
18,654	14,939	44,134	3,127	4,818	8,331	287,923	6,141	467,915	173,851	137	125	.....	.....	.....	12	.....	19
400,151	171,320	1,617,355	684,835	93,462	139,568	2,347,700	70,773	7,028,143	4,609,670	1,404	150	.....	9	.....	1,245	21	20
307,548	124,798	1,441,440	160,386	80,888	105,768	2,124,777	63,044	5,603,208	3,415,387	1,296	150	.....	9	.....	1,137	21	21
84,043	27,060	175,915	489,767	11,515	33,650	222,129	7,729	1,344,814	1,114,956	108	.....	.....	.....	.....	108	.....	22
8,560	19,462	.....	34,682	1,059	150	794	.....	80,121	79,327	.....	.....	.....	.....	.....	.....	.....	23
340,292	483,368	1,145,014	124,074	54,281	110,025	2,024,426	59,826	5,997,572	3,913,320	1,549	10	.....	147	4	1,388	8	24
170,941	339,761	525,574	2,149	23,726	64,244	948,007	28,424	3,154,875	2,178,444	742	.....	.....	11	.....	731	.....	25
125,526	97,652	587,842	6,291	24,551	43,719	1,017,039	29,127	2,302,536	1,256,370	784	10	.....	136	4	634	7	26
43,825	45,955	31,028	115,634	6,004	2,062	59,380	2,275	540,161	478,506	23	.....	.....	.....	.....	23	1	27
16,744	584	35,882	.....	590	2,701	65,872	1,385	147,682	80,425	6	.....	.....	.....	.....	6	.....	28
111,001	40,463	224,096	.....	8,470	12,118	880,526	4,183	1,504,129	619,420	129	.....	.....	15	.....	114	.....	29
254,141	55,742	1,636,577	.....	600	233,542	904,956	25,557	4,582,130	3,561,617	2,090	495	.....	184	.....	1,411	272	30
148,108	38,524	912,018	.....	475	140,941	591,090	13,213	3,058,777	2,454,474	881	445	.....	131	.....	305	272	31
106,033	17,218	712,930	.....	150	92,470	392,991	11,689	1,490,018	1,085,338	1,162	30	.....	26	.....	1,106	.....	32
.....	.....	11,620	.....	65	131	10,875	655	33,335	21,805	47	20	.....	27	.....	.....	.....	33
4,177	531	57,858	.....	2,790	3,736	59,580	2,142	151,238	89,516	62	.....	.....	.....	.....	62	.....	34
1,737	14,980	22,140	68	1,842	283	55,396	707	107,363	51,260	15	.....	.....	.....	.....	15	.....	35
65,001	28,023	367,354	46,274	6,200	20,875	577,290	31,447	1,550,712	941,975	1,811	810	.....	.....	525	476	425	36
46,988	23,944	186,976	46,274	5,000	7,546	540,851	15,661	1,195,500	638,988	380	235	.....	.....	.....	145	25	37
18,013	4,079	180,378	.....	1,200	13,329	36,439	15,786	355,212	302,987	1,431	575	.....	.....	525	331	400	38
86,175	67,338	455,791	.....	23,697	38,794	6,139,374	88,193	7,589,320	1,361,753	3,073	2,162	.....	7	1	903	424	39
79,083	44,385	361,973	.....	12,961	30,597	514,371	24,933	1,396,474	857,170	498	70	.....	.....	.....	428	.....	40
154,355	219,353	1,119,140	4,044	3,444	175,238	1,526,956	83,139	3,806,887	2,196,792	3,037	40	.....	.....	5	2,992	.....	41
65,992	50,945	479,589	.....	5,278	89,416	2,487,336	18,127	3,446,983	941,520	515	125	.....	.....	.....	390	.....	42
283,924	364,757	1,067,273	1,500	18,056	2,832,694	9,032,786	104,760	15,076,671	5,939,125	1,071	660	.....	.....	.....	411	.....	43
98,607	42,138	516,783	1,500	17,416	484,517	1,801,854	34,370	3,125,535	1,289,311	537	460	.....	.....	.....	77	.....	44
185,317	322,619	550,490	.....	640	2,348,177	7,230,932	70,390	11,951,136	4,649,814	534	200	.....	.....	.....	334	.....	45
309,197	709,685	5,448,166	.....	376,702	13,213,342	36,305,470	168,304	63,273,138	26,799,364	4,300	3,400	.....	.....	.....	900	1,539	46
303,766	184,901	1,683,736	.....	3,948	475,182	4,119,725	17,246	8,618,472	4,481,501	1,557	1,430	.....	.....	.....	127	437	47
25,436	9,387	136,604	450	372	6,267	287,198	6,145	568,167	274,824	1,742	1,612	.....	5	.....	125	.....	48
29,400	7,090	133,755	.....	2,030	47,565	903,203	10,114	1,226,840	313,523	403	115	.....	16	.....	272	.....	49
28,200	7,090	123,060	.....	1,530	47,050	845,119	9,368	1,142,195	287,708	335	85	.....	13	.....	237	.....	50
1,200	.....	10,695	.....	500	515	58,084	746	84,645	25,815	68	30	.....	3	.....	35	.....	51
.....	.....	1,150	.....	780	749	2,224	80	7,129	4,825	.....	.....	.....	.....	.....	.....	.....	52
61,240	10,380	133,859	.....	1,423	20,987	617,983	33,413	945,080	293,684	500	500	.....	.....	.....	.....	13	53
37,600	7,820	172,965	.....	2,889	3,207	317,459	4,520	606,540	284,561	1,031	959	.....	3	.....	69	5	54
43,975	16,081	469,223	183	771	141,455	1,488,254	50,143	2,693,142	1,154,745	1,405	630	.....	138	337	300	300	55
3,214,872	2,492,820	30,241,289	154,654	121,548	4,099,769	63,871,833	2,420,542	121,232,654	54,940,279	80,741	20,858	5,960	1,963	6,760	45,200	14,969	56

Jewelry 3
Jute goods 1
Labels and tags 1
Lard, not made in slaughtering and meat-packing establishments 2
Lithographing 1
Locomotives, not made by railroad companies 1
Looking-glass and picture frames 1
Millstones 2
Models and patterns, not including paper patterns 2
Musical instruments, organs 2
Musical instruments, piano materials 1
Oil and cake, cottonseed 1
Oil, essential 2
Oil, animal 4
Paper goods, not elsewhere specified 4
Perfumery and cosmetics 6
Petroleum, refining 1
Phonographs and graphophones 1
Pipes, tobacco 2
Plated ware, knives, forks, and spoons 1
Plumbers' supplies, not elsewhere specified 1
Pottery 2
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments 2
Printing and publishing, music 1
Pulp goods 1
Pumps, steam 1
Safes and vaults 1
Sausage, not made in slaughtering and meat-packing establishments 2
Shipbuilding, steel, new vessels 5
Show cases 1
Smelting, copper 1
Smelting and refining, not from the ore 2
Soap 1
Sporting and athletic goods 1
Stationery goods, not elsewhere specified 1
Statuary and art goods 1
Steam fittings and steam and hot-water heating apparatus 2
Stencils and brands 1
Stereotyping and electrotyping 1
Sulphuric, nitric, and mixed acids 1
Textile machinery and parts 1
Tools, not elsewhere specified 2
Varnishes 1
Wall plaster 3
Whips 1
Window shades and fixtures 1
Wooden goods, not elsewhere specified 1

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

[4] Same number reported throughout the year.

TABLE 32.—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	**NORFOLK**—All industries	207	6,095	158	344	311	163	5,119	Oc 5,919	My 4,480	5,741	4,118	1,578	28	17	*Dollars.* 22,516,307
2	Awnings, tents, and sails	3	69	3	9	2	3	52	Je 76	Ja [3] 44	45	35	10	.....	.....	197,970
3	Boxes, wooden packing, except cigar boxes.	5	452	2	7	3	4	436	My 473	Au 169	456	290	148	11	7	1,855,875
4	Bread and other bakery products	18	363	16	23	25	9	290	De 312	Ja 275	318	267	50	1	.....	964,276
5	Clothing, men's	7	300	10	17	8	2	263	No 293	Fe 238	282	46	236	.....	.....	407,535
6	Confectionery and ice cream	6	158	2	12	7	3	134	De [3] 145	Ja 115	145	60	85	.....	.....	571,518
7	Copper, tin, and sheet-iron work	5	63	2	9	1	1	50	No 53	Jy 47	49	48	.....	1	.....	156,421
8	Foundry and machine-shop products	7	322	11	13	22	3	273	No 408	My 41	375	374	.....	1	.....	649,568
9	Ice, manufactured	8	182	2	16	8	1	155	Jy 182	De 125	135	135	.....	.....	.....	1,616,842
10	Lumber planing-mill products, not including planing mills connected with sawmills.	8	237	9	20	10	2	196	Se 220	Ja 166	197	196	1	.....	.....	1,216,205
11	Mineral and soda waters	8	128	5	16	26	4	77	Oc 92	De 66	90	74	16	.....	.....	1,197,450
12	Paints	3	39	2	7	3	6	21	No 27	Jy 17	26	26	.....	.....	.....	171,681
13	Printing, job	25	189	21	23	4	5	136	De [3] 142	My 129	142	110	28	4	.....	404,981
14	Printing and publishing, newspapers and periodicals.	6	242	1	25	72	35	109	No 116	Fe 104	115	109	6	.....	.....	1,267,506
15	All other industries*	98	3,351	72	147	120	85	2,927	.....	.....	3,366	2,348	998	10	10	11,838,479

*All other industries embrace—
Agricultural implements 2
Artificial limbs 1
Artificial stone products 2
Automobile bodies and parts 2
Automobile repairing 2
Bags, other than paper, not including bags made in textile mills 5
Belting, leather 1
Boxes, paper, shipping containers and set-up paper boxes 3
Brooms, from broom corn 1
Carriages and wagons, including repairs 7
Cars and general shop construction and repairs by electric-railroad companies 1
Cars and general shop construction and repairs by steam-railroad companies 1
Chemicals 2
Clothing, women's 2
Coffee, roasting and grinding 1
Coffins, burial cases, and undertakers' goods 1
Cooperage, hogsheads and barrels 1
Engraving, steel and copper plate, including plate printing 1
Flavoring extracts 3
Flour-mill and gristmill products 1
Food preparations, not elsewhere specified 6
Fur goods 1
Furniture, store and office fixtures 3
Gas, illuminating and heating 1

1	**PORTSMOUTH**—All industries	48	2,521	37	116	87	44	2,237	Mh 2,330	Je 2,111	2,362	2,065	283	9	5	8,137,226
2	Bread and other bakery products	3	44	2	2	1	2	37	Je [3] 38	Ap [3] 36	37	34	3	.....	.....	53,199
3	Confectionery, ice cream	4	65	3	5	1	2	54	Jy [3] 74	Ja [3] 38	43	41	2	.....	.....	284,210
4	Ice, manufactured	3	110	9	8	6	1	86	Jy 110	Ja [3] 65	74	74	.....	.....	.....	638,810
5	Lumber, planing-mill products, not including planing mills connected with sawmills.	5	115	3	5	1	4	102	Se 121	Ja 84	101	98	.....	3	.....	217,645
6	Printing, job	4	37	5	4	1	1	26	(4) 26	(4) 26	26	24	2	.....	.....	67,586
7	All other industries*	29	2,150	15	92	77	34	1,932	 1,961	1,862	2,081	1,794	276	6	5	6,875,770

* All other industries embrace—
Bags, other than paper, not including bags made in textile mills 1
Boxes, wooden packing, except cigar boxes 2
Brass and bronze products 1
Carriages and wagons, including repairs 2
Cars and general shop construction and repairs by steam-railroad companies 1
Cooperage, hogsheads and barrels 1
Fertilizers 1
Foundry and machine-shop products 1
Furniture, wood, other than rattan and willow 2

1	**RICHMOND**—All industries	550	25,661	417	879	1,938	668	21,759	Oc 22,855	Jy 20,827	21,729	14,592	6,744	137	256	93,067,408
2	Automobile bodies and parts	6	81	2	8	3	2	66	Je [3] 73	Fe [3] 56	68	42	26	.....	.....	182,871
3	Automobile repairing	49	233	60	7	6	11	149	Se [3] 152	Ja [3] 145	152	150	2	.....	.....	221,090
4	Awnings, tents, and sails	6	23	6	1	1	.....	15	Jy 22	Ja [3] 11	15	9	6	.....	.....	11,271
5	Boxes, paper and other, not elsewhere specified.	11	463	6	31	5	12	409	No 440	Je 385	439	207	226	2	4	787,076
6	Boxes, wooden packing, except cigar boxes.	4	343	.....	7	4	4	328	No 345	Ap 313	342	342	.....	.....	.....	613,575
7	Bread and other bakery products	21	745	23	28	108	14	572	De 624	Fe 472	624	455	165	.....	4	1,651,058
8	Carriages and wagons, including repairs.	12	107	14	5	2	2	84	Jy 87	Ja 79	86	86	.....	.....	.....	106,271
9	Cars and general shop construction and repairs by steam-railroad companies.	4	1,929	.....	63	77	11	1,778	Mh 1,877	Je 1,582	1,825	1,810	15	.....	.....	4,147,202
10	Coffee, roasting and grinding	8	155	3	11	44	7	90	Oc 96	Au [3] 88	91	62	29	.....	.....	427,987
11	Confectionery and ice cream	14	358	8	32	26	15	277	Se 309	No 193	270	184	86	.....	.....	1,058,541
12	Copper, tin, and sheet-iron work	16	154	18	8	4	2	122	Oc 130	Mh 114	137	137	.....	.....	.....	217,914
13	Foundry and machine-shop products	22	326	23	18	9	10	266	No 284	Fe 244	283	283	.....	.....	.....	532,233
14	Furniture	6	226	4	11	9	11	191	De 212	Fe 179	212	199	7	6	.....	495,271
15	Ice, manufactured	8	150	6	18	3	4	119	Se 149	Fe 83	117	116	1	.....	.....	1,306,253
16	Lumber, planing-mill products, not including planing mills connected with sawmills.	10	723	5	20	43	7	648	No 721	Ja 559	715	715	.....	.....	.....	1,604,310
17	Marble and stone work, except slate	13	60	15	2	.....	.....	43	De 53	Ja [3] 36	47	47	.....	.....	.....	90,373
18	Mattresses and spring beds, not elsewhere specified.	6	39	7	.....	1	2	29	Ja [3] 32	Je 26	35	24	9	2	.....	99,017

[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.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	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.[2]		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
Dollars. 1,272,181	*Dollars.* 838,732	*Dollars.* 5,982,062	*Dollars.* 118,117	*Dollars.* 266,498	*Dollars.* 704,628	*Dollars.* 14,927,588	*Dollars.* 693,935	*Dollars.* 29,587,662	*Dollars.* 13,966,139	15,083	6,670	486	47	.....	7,880	144	1
32,660	4,800	70,834	.....	4,820	1,762	240,190	713	428,554	187,651	32	.....	.....	.....	.....	32	.....	2
62,051	16,056	312,839	.....	2,717	16,750	763,700	7,242	1,251,465	480,523	1,340	875	.....	.....	.....	465	.....	3
68,329	63,296	329,748	634	8,872	22,938	2,117,245	33,297	3,298,981	1,148,439	347	.....	.....	.....	.....	347	.....	4
49,300	46,194	150,058	.....	9,345	13,005	633,626	2,468	999,194	363,100	33	15	.....	.....	.....	18	8	5
55,740	21,846	100,480	.....	3,300	28,396	682,886	15,712	1,022,419	323,821	459	135	.....	.....	.....	324	.....	6
22,426	3,125	41,873	.....	3,000	1,076	79,339	1,359	189,973	109,275	9	.....	.....	.....	.....	9	.....	7
126,853	54,148	590,810	13,617	49,274	17,976	356,989	18,037	1,424,789	1,049,763	340	20	.....	.....	.....	320	.....	8
45,215	11,985	207,785	.....	48,000	51,812	123,634	139,210	837,814	574,970	3,887	3,455	.....	.....	.....	432	.....	9
64,793	19,022	251,531	.....	4,130	31,787	1,319,390	5,339	1,985,909	661,180	1,029	560	.....	.....	.....	469	.....	10
35,221	83,885	96,045	500	7,240	38,616	310,941	23,164	705,924	371,819	484	200	.....	25	.....	259	.....	11
42,742	21,083	22,132	1,500	3,310	2,429	310,980	1,908	452,644	139,756	91	.....	.....	.....	.....	91	.....	12
55,506	9,612	160,806	3,524	10,643	21,772	194,139	7,404	592,907	391,364	173	.....	.....	.....	.....	173	.....	13
73,739	171,793	185,004	24,699	12,640	44,121	475,123	11,138	1,572,520	1,086,259	284	.....	.....	.....	.....	284	.....	14
537,606	311,887	3,462,117	73,643	99,207	412,188	7,319,406	426,944	14,824,569	7,078,219	6,575	1,410	486	22	.....	4,657	136	15

Hand stamps..... 1
Ink, writing..... 1
Jewelry..... 1
Jute goods..... 1
Knit goods..... 2
Lime..... 1
Lumber and timber products..... 1
Marble and and stone work, monuments and tombstones..... 1
Mattresses and spring beds, not elsewhere specified..... 2
Mirrors, framed and unframed, not elsewhere specified..... 1
Models and patterns, not including paper patterns..... 1
Optical goods..... 1
Patent and proprietary medicines..... 4
Peanuts, grading, roasting, cleaning, and shelling..... 2
Photo-engraving..... 1
Plated ware, knives, forks, and spoons 1
Roofing materials, except metal..... 1
Saddlery and harness..... 1
Shipbuilding, steel, repair work only.. 3
Shipbuilding, wooden..... 5
Silk goods..... 2
Stencils and brands..... 1
Structural ironwork, not made in steel works or rolling mills..... 1
Tobacco, cigars and cigarettes..... 10
Wirework, not elsewhere specified..... 1

357,959	173,414	2,300,281	12,591	11,409	157,120	4,789,095	286,875	9,376,179	4,300,209	7,573	3,474	10	365	.....	3,724	129	1
5,420	3,556	42,093	50	1,380	209	178,526	3,161	280,950	99,263	13	.....	.....	.....	.....	13	.....	2
20,800	3,600	73,324	.....	1,109	2,071	315,812	4,460	443,809	123,537	148	.....	.....	.....	.....	148	.....	3
16,140	9,610	89,799	1,275	.....	13,313	30,879	68,010	316,102	217,213	1,474	1,049	.....	365	.....	60	109	4
16,675	5,225	124,347	.....	728	3,324	463,728	968	738,503	273,807	499	360	.....	.....	.....	139	.....	5
12,329	1,680	19,976	850	1,850	197	23,158	919	88,030	63,953	18	.....	.....	.....	.....	18	.....	6
286,595	149,743	1,950,742	10,416	6,342	138,006	3,776,992	209,357	7,508,785	3,522,436	5,421	2,065	10	.....	.....	3,346	20	7

Gas, illuminating and heating..... 1
Grease and tallow, not including lubricating greases..... 1
Knit goods..... 1
Marble and stone work, monuments and tombstones..... 1
Mattresses and spring beds, not elsewhere specified..... 3
Mineral and carbonated waters..... 2
Minerals and earths, ground or otherwise treated..... 1
Patent medicines and compounds..... 2
Printing and publishing, newspapers and periodicals..... 2
Tobacco, cigars..... 2
Wood preserving..... 1

2,945,005	3,179,896	19,842,938	916,983	804,713	17,879,621	87,689,819	1,754,113	156,724,322	67,280,390	40,828	14,741	663	2,009	7,665	15,750	7,543	1
13,707	2,733	50,778	374	3,107	594	188,199	1,794	301,396	111,403	40	.....	.....	.....	.....	40	.....	2
7,660	13,795	159,693	.....	32,333	2,814	465,164	7,883	857,632	384,585	87	.....	.....	.....	.....	87	.....	3
600	225	8,325	.....	1,650	145	22,372	309	47,311	24,630	7	.....	.....	.....	.....	7	.....	4
71,969	11,657	249,434	.....	18,760	16,468	516,691	10,892	1,086,065	558,482	419	85	.....	.....	.....	334	2	5
26,240	12,555	300,444	.....	12,832	10,434	812,829	4,141	1,413,692	596,722	686	600	49	.....	.....	37	5	6
96,243	213,795	502,448	.....	13,270	105,987	2,551,326	52,858	4,364,218	1,760,034	702	100	.....	.....	.....	602	.....	7
9,659	3,640	96,262	.....	5,620	1,631	85,688	3,620	252,211	162,903	61	.....	.....	.....	.....	61	.....	8
177,141	114,668	2,608,992	.....	.....	5,342	3,405,163	39,755	6,349,385	2,904,467	759	599	.....	.....	.....	160	1,035	9
25,249	58,571	63,841	.....	8,480	51,432	2,258,769	14,220	2,751,825	478,836	285	.....	.....	.....	.....	285	.....	10
151,173	62,880	237,027	14,149	29,235	189,097	1,209,450	48,060	2,322,052	1,064,542	679	175	.....	.....	.....	504	.....	11
10,362	5,913	157,394	.....	8,320	1,114	202,191	2,751	482,810	277,868	32	.....	.....	.....	.....	32	.....	12
46,036	23,301	331,871	.....	11,320	23,209	316,852	17,961	961,926	627,113	327	129	.....	54	.....	144	.....	13
44,273	19,946	229,585	.....	800	5,874	264,813	6,212	697,140	426,115	207	100	.....	.....	.....	107	.....	14
48,190	4,277	139,844	750	5,120	29,249	48,333	153,201	552,163	350,629	2,860	2,255	314	.....	.....	291	195	15
93,374	75,693	585,620	14,410	10,136	93,558	1,406,510	7,330	2,442,606	1,028,766	1,435	1,350	.....	.....	.....	85	200	16
3,276	.....	45,224	.....	960	786	56,289	2,082	135,722	77,351	158	.....	.....	28	.....	130	.....	17
.....	2,072	29,599	.....	3,125	703	66,095	675	154,366	87,596	36	.....	.....	.....	.....	36	.....	18

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

[2] Same number reported throughout the year.

TABLE 32.—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.															
	RICHMOND—Continued.															*Dollars.*
1	Millinery and lace goods, not elsewhere specified.	8	135	9	1	.....	6	119	Oc 122	Jy 116	121	6	114	.....	1	63,993
2	Mineral and carbonated waters	7	93	2	18	18	5	50	Jy 60	My 32	55	54	1	.....	.....	343,969
3	Patent medicines and compounds	13	114	5	9	19	11	70	Se[3] 74	Mh 66	74	35	39	.....	.....	208,662
4	Printing and publishing, book and job	63	1,278	52	76	72	53	1,025	No 1,052	Fe 1,006	1,052	629	322	78	24	3,196,633
5	Printing and publishing, newspapers and periodicals.	31	467	10	29	151	60	217	.....	.....	227	197	20	5	5	1,831,722
6	Printing, publishing, and job printing.	12	412	4	19	137	37	215	De 221	Je 210	225	195	20	5	5	1,791,372
7	Publishing without printing	19	55	6	10	14	23	2	(4) 2	(4) 2	2	2	.....	.....	.....	40,350
8	Tobacco, chewing and smoking	5	1,264	.....	74	134	40	1,016	Oc 1,094	Mh 964	1,002	565	432	2	3	11,588,145
9	Tobacco, cigars and cigarettes	10	6,203	8	61	464	78	5,592	No 6,653	My 4,920	6,151	1,902	4,045	4	200	21,051,432
10	All other industries*	197	9,992	131	341	735	301	8,484	.....	.....	7,588	6,336	1,199	38	15	41,230,534

*All other industries embrace—
Agricultural implements 1
Artificial limbs 1
Artificial stone products 1
Automobiles 1
Babbitt metal 2
Bags, paper, exclusive of those made in paper mills 1
Bags, other than paper, not including bags made in textile mills 7
Baking powders and yeast 2
Baskets, and rattan and willow ware 1
Belting, leather 2
Billiard tables and accessories 1
Blacking, stains, and dressings 1
Bluing 1
Bookbinding and blank-book making 3
Boot and shoe cut stock 1
Boxes, cigar 1
Brass and bronze products 1
Brick 1
Brooms 2
Butter 2
Cars and general shop construction and repairs by electric-railroad companies 2
Chemicals 3
Chewing gum 1
Cleansing and polishing preparations 2
Clothing, men's 2
Clothing, women's 3
Coffins, burial cases, and undertakers' goods 1
Cooperage, hogsheads and barrels 2
Cordials and flavoring sirups 3
Dental goods 5
Drug grinding 1
Druggists' preparations 7
Electrical machinery, apparatus, and supplies 1
Electroplating 2
Engraving and diesinking 1
Engraving, steel and copper plate, including plate printing 4
Envelopes 2
Fancy articles, not elsewhere specified 1
Fertilizers 4
Flavoring extracts 3
Flour-mill and gristmill products 4
Food preparations, not elsewhere specified 6
Fur goods 2
Gas, illuminating and heating 3
Glass 1
Glass, cutting, staining, and ornamenting 1
Grease and tallow, not including lubricating greases 2
Hair work 1
Hand stamps 1
Hardware 2
Hats and caps, other than felt, straw, and wool 1

1	**ROANOKE**—All industries	99	8,600	56	286	415	103	7,740	Oc 8,235	Mh 6,499	8,384	7,371	950	33	30	21,187,946
2	Bread and other bakery products	6	71	9	2	4	8	48	De[3] 53	Ja[3] 45	52	52	.....	.....	.....	183,381
3	Cars and general shop construction and repairs by steam-railroad companies.	3	5,060	.....	123	174	15	4,748	Fe 5,221	Mh 3,847	5,186	5,185	1	.....	.....	7,127,213
4	Confectionery	4	62	.....	8	9	4	41	De 51	Jy 35	51	13	38	.....	.....	300,641
5	Ice, manufactured	3	50	.....	6	2	2	40	Au 64	Mh 20	35	34	.....	1	.....	430,886
6	Lumber, planing-mill products, not including planing mills connected with sawmills.	6	137	2	17	7	1	110	No 145	Ja 72	145	145	.....	.....	.....	1,009,058
7	Mineral and carbonated waters	6	44	2	8	4	2	28	Se[3] 34	Ja 18	32	28	2	2	.....	302,305
8	Printing, job	6	227	6	9	6	13	193	Oc[3] 196	My 188	194	91	94	7	2	899,201
9	All other industries*	65	2,949	37	113	209	58	2,532	.....	.....	2,689	1,823	815	23	28	10,935,261

*All other industries embrace—
Automobile bodies and parts 2
Automobile repairing 2
Awnings, tents, and sails 1
Brick, fire 1
Butter 2
Canning and preserving, vegetables 1
Carriages and wagons, including repairs 2
Cars and general shop construction and repairs by electric-railroad companies 1
Chemicals 1
Cleansing and polishing preparations 1
Clothing, men's 2
Clothing, women's, undergarments and petticoats 1
Coffee, roasting and grinding 1
Copper, tin, and sheet-iron work 2
Cordage and twine 1
Envelopes 1
Fertilizers 1
Flour-mill and gristmill products 5
Foundry and machine-shop products 4
Gas, illuminating and heating 2
Gloves and mittens, leather 1
Hats and caps, other than felt, straw, and wool 1
Iron and steel, blast furnaces 1

CITIES OF 10,000 TO 50,000 INHABITANTS[5]—ALL INDUSTRIES COMBINED.

1	ALEXANDRIA	35	4,312	21	94	142	43	4,012	Se 4,423	Ja 3,514	3,579	3,391	90	73	15	19,237,830
2	CHARLOTTESVILLE	37	554	34	41	22	7	450	Au 465	Ja 439	455	370	85	.....	.....	1,310,607
3	DANVILLE	44	6,069	26	88	102	26	5,827	No 6,023	Ja 5,644	6,061	3,730	2,201	62	68	29,260,906
4	LYNCHBURG	65	5,066	18	193	221	148	4,486	Oc 5,020	Ja 3,908	4,891	2,748	1,987	98	58	17,597,854
5	PETERSBURG	116	5,452	71	241	157	92	4,891	De 5,318	Ap 4,532	5,376	3,518	1,748	41	69	14,202,462
6	STAUNTON	54	587	64	22	18	10	473	De 531	Ja 399	539	272	251	2	14	1,620,576

[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.								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.[2]		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*								
2,139	3,107	79,119	.....	8,301	4,839	98,099	980	236,113	137,034	33	.....	.....	.....	.....	33	.....	1
57,824	52,919	52,939	10,776	8,574	86,036	562,761	4,689	1,069,215	501,765	186	5	.....	.....	.....	181	.....	2
17,108	40,479	54,146	.....	15,337	4,565	246,117	994	470,699	223,588	29	.....	.....	.....	.....	29	.....	3
218,186	114,069	1,008,257	675,174	57,673	90,986	1,516,537	42,372	4,688,631	3,129,722	760	150	.....	.....	.....	610	.....	4
109,799	148,192	366,204	76,317	16,113	40,171	859,674	12,545	2,021,422	1,149,203	418	.....	.....	.....	.....	418	.....	5
85,582	121,042	364,404	203	13,583	39,810	829,944	11,333	1,633,426	792,149	418	.....	.....	.....	.....	418	.....	6
24,217	27,150	1,800	76,114	2,530	361	29,730	1,212	387,996	357,054	.....	.....	.....	.....	.....	.....	.....	7
207,218	323,880	610,640	.....	1,900	2,444,709	7,427,970	72,712	12,340,704	4,840,022	521	205	.....	.....	.....	316	.....	8
259,543	672,148	4,333,471	.....	363,445	13,005,418	28,948,003	125,509	54,107,156	25,033,644	3,063	2,500	.....	.....	.....	563	1,054	9
1,218,036	1,199,381	7,541,781	125,033	168,302	1,664,400	34,153,924	1,120,568	56,617,862	21,343,370	27,038	6,488	300	1,927	7,665	10,658	5,052	10

Iron and steel, steel works and rolling mills..... 1
Iron and steel, forgings, not made in steel works or rolling mills..... 1
Iron and steel, welding..... 5
Jewelry..... 2
Lard, not made in slaughtering and meat-packing establishments..... 1
Leather, tanned, curried, and finished 2
Lithographing..... 1
Locomotives, not made by railroad companies..... 1
Looking-glass and picture frames..... 1
Minerals and earths, ground or otherwise treated..... 1
Mirrors, framed and unframed, not elsewhere specified..... 2
Models and patterns, not including paper patterns..... 1
Musical instruments, piano materials. 1
Optical goods..... 3
Ordnance and accessories..... 1
Paints..... 2
Paper and wood pulp..... 4
Paper goods, not elsewhere specified . 2
Peanuts, grading, roasting, cleaning, and shelling..... 1
Perfumery and cosmetics..... 5
Photo-engraving..... 4
Pickles and sauces..... 2
Plumbers' supplies, not elsewhere specified..... 1
Pottery..... 1
Pulp goods..... 1
Roofing materials..... 2
Saddlery and harness..... 7
Safes..... 1
Sausage, not made in slaughtering and meat-packing establishments..... 1
Shirts..... 2
Show cases..... 1
Signs, other than electric..... 1
Slaughtering and meat packing..... 4
Smelting and refining, not from the ore 1
Sporting and athletic goods..... 1
Statuary and art goods..... 1
Steam and hot-water radiators and cast-iron heating boilers..... 1
Stereotyping and electrotyping..... 1
Stoves and ranges..... 3
Structural ironwork, not made in steel works or rolling mills..... 2
Textile machinery and parts..... 1
Tinware, not elsewhere specified ... 2
Trunks and valises..... 4
Varnishes..... 1
Whips..... 1
Window shades and fixtures..... 1
Wirework, not elsewhere specified.... 2
Wooden goods, not elsewhere specified 2

838,170	615,979	8,807,077	4,233	40,758	3,185,637	14,725,900	824,016	34,864,211	19,314,295	14,275	2,097	4,281	228	6	7,663	9,786	1
3,700	8,060	48,524	.....	1,358	2,692	339,566	5,843	495,909	150,500	71	.....	.....	.....	.....	71	.....	2
408,260	157,622	5,978,776	.....	.....	87,291	6,098,960	248,759	12,892,766	6,545,047	3,385	904	2,481	.....	.....	.....	9,423	3
23,495	18,498	26,377	.....	3,703	27,795	133,423	2,281	322,409	186,705	30	.....	.....	3	.....	27	3	4
8,900	3,158	33,306	.....	.....	3,172	10,190	38,410	132,467	83,867	1,093	515	.....	225	.....	353	.....	5
40,843	10,048	115,683	.....	36	17,042	574,627	4,108	878,036	299,301	633	200	.....	.....	.....	433	.....	6
25,050	10,103	15,730	.....	2,285	25,742	170,861	1,316	296,359	124,182	59	9	.....	.....	.....	50	.....	7
29,340	19,945	158,074	.....	6,170	14,704	180,001	5,075	568,773	383,697	164	.....	.....	.....	.....	164	.....	8
298,582	388,545	2,430,607	4,233	27,206	3,007,199	7,218,272	518,224	19,277,492	11,540,996	8,840	469	1,800	.....	6	6,565	360	9

Iron and steel, welding..... 1
Labels and tags..... 1
Lard, not made in slaughtering and meat-packing establishments..... 1
Lumber and timber products..... 1
Marble and stone work..... 2
Mattresses and spring beds, not. elsewhere specified..... 1
Optical goods..... 3
Patent medicines and compounds.... 3
Paving materials..... 1
Perfumery and cosmetics..... 1
Printing and publishing, newspapers and periodicals..... 2
Roofing materials, except metal..... 1
Saddlery and harness..... 1
Signs, other than electric..... 1
Slaughtering and meat packing..... 1
Smelting and refining, not from the ore..... 1
Structural ironwork, not made in steel works or rolling mills..... 3
Tinware, not elsewhere specified.....
Tobacco, cigars.....
Vinegar.....

CITIES OF 10,000 TO 50,000 INHABITANTS[5]—ALL INDUSTRIES COMBINED.

359,461	302,923	5,446,059	13,050	10,972	148,658	7,473,669	308,579	16,908,023	9,125,775	3,940	383	.....	3	.....	3,554	80	1
80,218	28,592	550,754	1,709	7,005	25,600	973,318	55,251	1,923,944	895,375	1,037	660	.....	.....	.....	377	92	2
417,203	332,844	5,610,611	16,559	13,958	2,843,210	15,822,041	468,739	30,183,494	13,892,714	29,752	2,185	16,166	5	10,965	431	20,056	3
561,587	522,130	4,467,038	122,010	37,002	1,007,123	15,704,211	378,827	27,449,656	11,366,618	8,549	5,528	.....	4	655	2,362	3,813	4
606,317	300,733	3,790,981	3,232	71,016	820,782	18,075,710	221,932	26,440,199	8,142,557	7,106	5,032	.....	.....	825	1,249	1,337	5
43,210	25,224	279,257	260	12,361	14,819	1,849,081	54,886	2,566,548	662,581	1,029	515	30	21	.....	463	.....	6

[3] Same number reported for one or more other months.
[4] Same number reported throughout the year.
[5] Statistics for Newport News are omitted to avoid disclosure of individual operations.

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES

MANUFACTURES: 1919

WASHINGTON

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

CONTENTS

	Page
EXPLANATION OF TERMS	2
GENERAL STATISTICS	
General character of the state	3
Comparative summary	4
Statistics for the state, by counties	5
Principal industries, ranked by value of products	6
Persons engaged in manufacturing industries	6
Average number of wage earners for selected industries, with per cent, by sex and age	7
Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more	7
Wage earners, by months	7
Wage earners, by months, for selected industries and for cities	8
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities	9
Size of establishments, by average number of wage earners, for selected industries and for cities	10
Size of establishments, by value of products	10
Size of establishments, by value of products, for selected industries	11
Size of establishments, by value of products, for cities of 10,000 inhabitants or more	12
Character of ownership, for selected industries and for cities	13
Manufactures, by population groups, in cities of 10,000 inhabitants or more	14
Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state	14
Number and horsepower of types of prime movers	15
Fuel consumed	15
SPECIAL STATISTICS	
Lumber and timber products	16
Shipbuilding, including boat building	16
Flour-mill and gristmill products	17
Slaughtering and meat packing	17
Butter, cheese, and condensed milk	18
Canning and preserving	18
Printing and publishing	19
Laundries	19
Dyeing and cleaning	20
Custom gristmills	20
GENERAL TABLES	
Table 30.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909	21
Table 31.—Detailed statement of all industries combined and specified industries: 1919	24

WASHINGTON

GOVERNMENT PRINTING OFFICE

1922

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 bulletin 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 fuels is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

WASHINGTON.

GENERAL STATISTICS.

General character of the state.—Washington has a gross area of 69,127 square miles, of which 66,836 represent land surface. The inhabitants of the state in 1900 numbered 518,103; in 1910, 1,141,990; and in 1920, 1,356,621. In total population Washington ranked thirtieth among the states in 1920. The number of inhabitants per square mile in 1910 was 17.1, the corresponding figure for 1920 being 20.3.

In 1920 there were 10 cities in the state—Aberdeen, Bellingham, Everett, Hoquiam, Seattle, Spokane, Tacoma, Vancouver, Walla Walla, and Yakima—having more than 10,000 inhabitants. The combined population of these 10 cities in that year was 642,017, which formed 63.8 per cent of the total for Washington. These cities in 1919 reported 63.8 per cent of the value of the state's manufactured products.

Importance and growth of manufactures (Table 1).—The increases in 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. The increases shown, however, in average number of wage earners and horsepower 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 39 counties in the state, King and Pierce, containing the cities of Seattle and Tacoma, reported 56 per cent of the total value of products in the state and 50.6 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 31.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 500 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).—During the census period 1914–1919, all cities show increases in value of products, due largely to the increased value of commodities at the latter period. Seattle is by far the most important city in the state and shows an increase during this five-year period of 28,414, or 228.6 per cent, in the average number of wage earners, and $209,955,797, or 325.6 per cent, in value of products.

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, this table gives similar data for males and females for all industries combined for the state and for cities of 10,000 inhabitants or more. The table also shows a number of industries in the state in 1919 employing a considerable proportion of female wage earners.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Washington. In that year only 15.7 per cent of the wage earners were reported in the group "48 and under" as against 93.9 per cent in 1919. In 1914, the "60" and "Over 60" groups constituted 64.9 per cent of the total number of wage earners, as compared with 1.5 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 average number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 94.7 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 31.3 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 5.3 per cent of the total

manufacturing establishments in the state, but reported 68.7 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" constituted 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 some 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 predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 38.9 per cent of the total number of establishments in the state in 1919, they reported 90.5 per cent of the average number of wage earners and 91.4 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 61,190, or 103.4 per cent, and the value of products, $522,977,978, or 241.4 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 these 10 cities in 1919 represented 50.3 per cent of the total in the state. They reported in that year 55.5 per cent of the average number of wage earners and 63.8 per cent of the total value of products.

Principal industries in Seattle, Spokane, and Tacoma, with per cent of total for the state (Table 16).—This table includes all industries in the cities of Seattle, Spokane, and Tacoma having products of $700,000 and over, for which figures can be shown 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 297,869 horsepower, or 76.5 per cent. Of this increase, 162,761 horsepower, or 54.6 per cent, was owned power, and 135,108, or 45.4 per cent, rented power. During this five-year period, owned power increased 53.5 per cent and rented power 158.6 per cent.

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.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE.			
	1919	1914	1909	1904	1899	1914–1919	1909–1914	1904–1909	1899–1904
Number of establishments	4,918	3,829	3,674	2,751	1,926	28.4	4.2	33.6	42.8
Persons engaged	150,479	78,448	80,118	51,459	(2)	91.8	−2.1	55.7	.....
Proprietors and firm members	4,195	3,155	3,264	2,602	(2)	33.0	−3.3	25.4	.....
Salaried employees	13,356	8,088	7,734	3,658	2,103	65.1	4.6	111.4	73.9
Wage earners (average number)	132,928	67,205	69,120	45,199	31,523	97.8	−2.8	52.9	43.4
Primary horsepower	687,436	389,567	297,897	168,342	87,601	76.5	30.8	77.0	92.2
Capital	$574,235,183	$277,715,262	$222,261,229	$96,952,621	$41,574,744	106.8	24.9	129.2	133.2
Salaries and wages	225,341,988	63,207,140	59,592,947	34,180,206	19,128,588	256.5	6.1	74.3	78.7
Salaries	30,373,766	11,504,088	9,826,579	4,092,919	2,063,448	164.0	17.1	140.1	98.4
Wages	194,968,222	51,703,052	49,766,368	30,087,287	17,065,140	277.1	3.9	65.4	76.3
Paid for contract work	5,376,513	2,132,242	2,175,766	2,480,710	(2)	152.2	−2.0	−12.3	.....
Rent and taxes	23,851,653	5,150,538	3,457,250	[3] 1,129,380	(2)	363.1	49.0	.....	.....
Cost of materials	443,177,531	136,609,309	117,887,688	66,166,165	38,276,944	224.4	15.9	78.2	72.9
Value of products	809,622,984	245,326,456	220,746,421	128,821,667	70,831,345	230.0	11.1	71.4	81.9
Value added by manufacture [4]	366,445,453	108,717,147	102,858,733	62,655,502	32,554,401	237.1	5.7	64.2	92.5

[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	4,918	132,928	$194,968,222	$23,851,653	$443,177,531	$809,622,984	$366,445,453	687,436
Adams	22	175	287,139	15,857	1,875,684	2,336,434	460,750	577
Asotin	14	92	86,220	4,906	580,829	796,705	215,876	425
Benton	29	89	118,831	16,893	874,238	1,214,806	340,568	663
Chelan	77	728	1,029,327	61,424	2,260,195	4,170,533	1,910,338	4,082
Clallam	57	1,693	2,465,748	115,123	3,006,200	6,547,924	3,541,724	8,975
Clarke	110	6,134	9,450,452	257,649	16,117,662	30,613,359	14,495,697	33,411
Columbia	22	85	112,077	9,497	1,061,268	1,331,503	270,235	574
Cowlitz	55	1,145	1,996,827	226,851	1,971,734	5,019,919	3,048,185	16,283
Douglas	29	31	48,387	8,060	153,418	286,591	133,173	331
Ferry	18	68	94,555	3,852	191,475	406,266	214,791	744
Franklin	13	354	463,592	29,523	1,759,085	2,416,482	657,397	670
Garfield	12	25	34,863	3,069	457,607	565,060	107,453	244
Grant	16	21	28,920	3,787	463,727	541,760	78,033	467
Grays Harbor	199	10,405	16,139,339	1,444,904	21,374,872	47,875,238	26,500,366	107,920
Island	30	158	224,836	4,874	304,012	792,467	488,455	1,374
Jefferson	46	686	915,761	68,522	1,355,614	2,962,415	1,606,801	7,456
King	1,405	47,474	72,841,759	12,659,457	162,708,895	304,591,932	141,883,037	135,253
Kitsap	73	1,068	1,351,639	129,497	2,668,189	4,823,990	2,155,801	7,781
Kittitas	46	372	547,530	27,687	829,093	1,717,739	888,646	1,890
Klickitat	49	287	435,775	14,062	359,218	1,114,229	755,011	2,382
Lewis	192	4,192	6,749,114	352,618	7,106,515	18,713,019	11,606,504	33,498
Lincoln	44	166	234,662	57,758	4,120,444	4,730,425	609,981	1,815
Mason	38	732	1,197,116	96,472	1,028,514	2,885,190	1,856,676	5,108
Okanogan	72	135	167,681	13,324	586,170	957,055	370,885	1,767
Pacific	104	2,539	3,968,300	195,384	4,880,462	11,456,328	6,575,866	20,056
Pend Oreille	46	969	1,054,352	69,733	1,102,312	3,182,368	2,080,026	8,969
Pierce	480	19,728	27,338,826	2,633,922	95,873,318	148,846,696	52,973,378	95,631
San Juan	19	244	252,634	14,865	1,139,515	2,012,175	872,660	663
Skagit	116	3,851	6,144,397	707,669	11,057,506	23,375,730	12,318,224	23,488
Skamania	18	267	469,844	11,550	228,866	860,455	631,589	1,203
Snohomish	294	9,418	13,832,988	1,880,496	24,797,351	51,714,143	26,916,792	53,229
Spokane	424	7,707	8,720,897	1,138,510	31,985,385	50,973,532	18,988,147	36,959
Stevens	67	702	773,485	48,044	2,709,637	4,064,823	1,355,186	9,284
Thurston	106	3,261	4,679,575	300,618	4,832,707	12,877,163	8,044,456	17,837
Wahkiakum	36	774	1,111,391	112,059	2,289,504	4,395,048	2,106,544	9,840
Walla Walla	89	492	627,646	107,535	4,509,254	6,279,166	1,769,912	2,321
Whatcom	210	4,726	6,635,523	727,409	17,632,973	30,133,461	12,500,488	27,599
Whitman	98	288	412,188	38,781	2,155,289	2,933,764	778,475	1,331
Yakima	143	1,647	1,924,113	239,472	4,768,764	9,106,091	4,337,327	5,336

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	4,918	132,928	100.0	$809,623	100.0	$366,445	100.0
Lumber and timber products	1,130	53,393	40.2	220,512	27.2	135,206	36.9
Shipbuilding, steel	9	29,391	22.1	140,980	17.4	77,631	21.2
Flour-mill and gristmill products	119	1,536	1.1	81,141	10.0	7,986	2.2
Slaughtering and meat packing	29	1,222	0.9	34,389	4.2	5,264	1.4
Shipbuilding, wooden, including boat building	67	5,185	3.9	25,539	3.2	14,842	4.1
Foundry and machine-shop products	233	3,641	2.7	20,801	2.6	12,705	3.5
Condensed milk	14	734	0.5	19,587	2.4	3,940	1.1
Canning and preserving, fish	66	1,683	1.3	15,860	2.0	5,559	1.5
Bread and other bakery products	364	1,743	1.3	15,043	1.9	5,806	1.6
Cars and general shop construction and repairs by steam-railroad companies	35	6,480	4.9	14,935	1.8	9,211	2.5
Butter	101	475	0.4	12,991	1.6	2,260	0.6
Printing and publishing, newspapers and periodicals	316	1,404	1.1	11,954	1.5	9,156	2.5
Lumber, planing-mill products, not including planing mills connected with sawmills	86	1,946	1.5	10,932	1.4	4,871	1.3
Paper and wood pulp	6	1,610	1.2	10,653	1.3	5,591	1.5
Confectionery and ice cream	119	1,596	1.2	10,302	1.3	4,618	1.3
Canning and preserving, fruits	30	1,348	1.0	9,296	1.1	3,416	0.9
Automobile repairing	562	1,687	1.3	6,953	0.9	4,538	1.2
Tinware, not elsewhere specified	6	610	0.5	6,684	0.8	1,182	0.3
Printing and publishing, book and job	232	906	0.7	4,710	0.6	3,199	0.9
Coffee, roasting and grinding	24	215	0.2	4,357	0.5	1,191	0.3
Gas, illuminating and heating	12	637	0.5	3,680	0.5	2,074	0.6
Boxes, wooden packing, except cigar boxes	16	679	0.5	3,381	0.4	1,645	0.4
Cement	4	436	0.3	3,241	0.4	1,521	0.4
Iron and steel forgings, not made in steel works or rolling mills	11	346	0.3	3,155	0.4	1,361	0.4
Furniture	59	787	0.6	$2,777	0.3	$1,724	0.5
Copper, tin, and sheet-iron work	110	409	0.3	2,547	0.3	1,405	0.4
Engines, steam, gas, and water	13	546	0.4	2,527	0.3	1,402	0.4
Clothing, men's	9	468	0.4	2,231	0.3	1,312	0.4
Food preparations, not elsewhere specified	40	128	0.1	2,065	0.3	663	0.2
Pickles, preserves, and sauces	17	256	0.2	2,041	0.3	786	0.2
Liquors, malt	8	141	0.1	1,833	0.2	815	0.2
Brick and tile, terra-cotta, and fire-clay products	35	664	0.5	1,783	0.2	1,227	0.3
Brass, bronze, and copper products	16	163	0.1	1,608	0.2	603	0.2
Cars and general shop construction and repairs by electric-railroad companies	16	679	0.5	1,580	0.2	1,001	0.3
Mattresses and spring beds, not elsewhere specified	12	226	0.2	1,365	0.2	634	0.2
Chemicals	8	90	0.1	1,363	0.2	828	0.2
Mineral and soda waters	53	123	0.1	1,257	0.2	585	0.2
Automobile bodies and parts	58	276	0.2	1,226	0.2	761	0.2
Awnings, tents, and sails	15	107	0.1	1,174	0.1	422	0.1
Clothing, women's	20	282	0.2	1,171	0.1	562	0.2
Electrical machinery, apparatus, and supplies	12	190	0.1	1,067	0.1	421	0.1
Jewelry	16	215	0.2	1,022	0.1	568	0.2
Boxes, paper and other, not elsewhere specified	11	329	0.2	973	0.1	521	0.1
Wooden goods, not elsewhere specified	8	280	0.2	944	0.1	653	0.2
Marble and stone work	27	150	0.1	928	0.1	608	0.2
Saddlery and harness	42	74	0.1	922	0.1	436	0.1
Agricultural implements	9	146	0.1	913	0.1	467	0.1
Vinegar and cider	19	98	0.1	902	0.1	477	0.1
All other industries [1]	694	7,198	5.3	82,328	10.2	22,791	6.2

[1] Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are seven 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"; "cars, steam-railroad, not including operations of railroad companies"; "explosives"; "iron and steel, steel works and rolling mills"; "smelting and refining, copper"; "smelting, lead"; and "wood preserving."

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

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.
All classes	1919	150,479	139,977	10,502	93.0	7.0
	1914	78,448	73,957	4,491	94.3	5.7
	1909	80,118	76,342	3,776	95.3	4.7
Proprietors and officials	1919	9,416	9,169	247	97.4	2.6
	1914	6,074	5,913	161	97.3	2.7
	1909	6,314	6,201	113	98.2	1.8
Proprietors and firm members	1919	4,195	4,084	111	97.4	2.6
	1914	3,155	3,028	127	96.0	4.0
	1909	3,264	3,178	86	97.4	2.6
Salaried officers of corporations	1919	1,584	1,506	78	95.1	4.9
	1914	1,063	1,038	25	97.6	2.4
	1909	1,094	1,078	16	98.5	1.5
Superintendents and managers	1919	3,637	3,579	58	98.4	1.6
	1914	1,856	1,847	9	99.5	0.5
	1909	1,956	1,945	11	99.4	0.6
Clerks and other subordinate salaried employees	1919	8,135	5,405	2,730	66.4	33.6
	1914	5,169	4,158	1,011	80.4	19.6
	1909	4,684	3,880	804	82.8	17.2
Wage earners (average number)	1919	132,928	125,403	7,525	94.3	5.7
	1914	67,205	63,886	3,319	95.1	4.9
	1909	69,120	66,261	2,859	95.9	4.1
16 years of age and over	1919	132,655	125,202	7,453	94.4	5.6
	1914	66,955	63,686	3,269	95.1	4.9
	1909	68,854	66,042	2,812	95.9	4.1
Under 16 years of age	1919	273	201	72	73.6	26.4
	1914	250	200	50	80.0	20.0
	1909	266	219	47	82.3	17.7

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.	Female.	Under 16 years of age.
All industries	1919	132,928	94.2	5.6	0.2
	1914	67,205	94.8	4.9	0.4
	1909	69,120	95.5	4.1	0.4
Automobile repairing	1919	1,687	99.3	0.6	0.1
	1914	67	100.0	.....	.....
Boxes, wooden packing, except cigar boxes	1919	679	90.7	7.7	1.6
	1914	338	91.7	5.0	3.3
Bread and other bakery products	1919	1,743	66.4	32.5	1.1
	1914	1,419	66.6	31.9	1.5
Brick and tile, terra-cotta, and fire-clay products	1919	664	99.2	0.2	0.6
	1914	962	99.1	.....	0.9
Canning and preserving, fish	1919	1,683	83.5	16.2	0.3
	1914	1,715	82.0	16.2	1.7
Canning and preserving, fruits	1919	1,348	31.6	64.5	3.9
	1914	367	50.1	48.2	1.6
Cars and general shop construction and repairs by electric-railroad companies	1919	679	98.5	1.3	0.1
	1914	382	100.0	.....	.....
Cars and general shop construction and repairs by steam-railroad companies	1919	6,480	98.6	1.4	.....
	1914	4,543	100.0	.....	.....
Condensed milk	1919	734	78.7	21.3	.....
	1914	436	83.9	13.1	3.0
Confectionery and ice cream	1919	1,596	33.3	66.4	0.3
	1914	638	41.5	58.0	0.5
Engines, steam, gas, and water	1919	546	99.8	.....	0.2
	1914	21	100.0	.....	.....
Flour-mill and grist-mill products	1919	1,596	97.1	2.7	0.1
	1914	928	97.7	2.3	.....
Foundry and machine-shop products [1]	1919	3,661	99.7	0.3	0.1
	1914	1,850	99.8	0.1	0.1
Furniture	1919	787	83.4	16.4	0.3
	1914	544	97.4	1.5	1.1
Gas, illuminating and heating	1919	637	99.7	0.3	.....
	1914	630	100.0	.....	.....
Lumber and timber products	1919	53,393	98.9	1.1	(2)
	1914	36,461	99.7	0.2	0.1
Lumber, planing-mill products, not including planing mills connected with sawmills	1919	1,946	95.0	5.0	.....
	1914	1,273	99.1	.....	0.9
Paper and wood pulp [3]	1919	1,610	91.0	9.0	.....
Printing and publishing, book and job	1919	966	74.5	22.6	2.9
	1914	952	82.7	14.8	2.5
Printing and publishing, newspapers and periodicals	1919	1,494	90.4	7.5	2.1
	1914	1,302	86.6	11.6	1.8
Shipbuilding, including boat building	1919	34,576	99.7	0.1	0.2
	1914	1,444	99.9	0.1	.....
Slaughtering and meat packing	1919	1,222	90.2	9.8	.....
	1914	864	96.2	3.8	.....
Tinware, not elsewhere specified	1919	610	59.8	40.0	0.2
	1914	60	88.3	10.0	1.7
All other industries	1919	12,801	78.9	20.7	0.4
	1914	10,629	84.7	14.7	0.6

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

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. Total. 1919	1914	1909	16 years of age and over. Male. 1919	1914	1909	Female. 1919	1914	1909	Under 16 years of age. 1919	1914	1909	VALUE OF PRODUCTS. 1919	1914	1909
Aberdeen	2,715	1,568	1,509	2,684	1,523	1,480	31	43	26	.....	2	3	$15,757,723	$4,815,113	$3,590,230
Bellingham	3,088	1,922	1,566	2,945	1,828	1,456	140	76	73	3	18	37	17,807,631	6,264,397	4,599,637
Everett	3,273	1,959	2,200	3,149	1,914	2,142	118	41	46	6	4	12	21,886,682	6,530,405	6,593,071
Hoquiam	2,164	1,657	.....	2,117	1,621	.....	39	36	.....	8	.....	.....	11,872,031	5,009,410	.....
Seattle	40,843	12,429	11,523	37,740	10,924	10,397	3,047	1,450	1,080	56	55	46	274,431,239	64,475,442	50,813,641
Spokane	4,752	3,020	3,901	3,850	2,532	3,492	886	451	395	16	37	14	40,149,381	16,636,309	18,617,367
Tacoma	10,714	6,765	6,820	9,901	6,366	6,485	800	387	322	13	12	13	103,171,756	27,707,606	24,402,198
Vancouver	4,522	360	.....	4,458	327	.....	64	33	.....	.....	.....	.....	21,251,700	1,301,048	.....
Walla Walla	428	311	388	401	289	370	25	14	16	2	8	2	4,322,636	2,014,673	2,316,813
Yakima	1,326	582	601	1,144	561	558	173	9	23	9	12	20	5,766,980	1,937,461	2,152,167

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

MONTH.	NUMBER.[1] 1919	1914	1909	PER CENT OF MAXIMUM. 1919	1914	1909	MONTH.	NUMBER.[1] 1919	1914	1909	PER CENT OF MAXIMUM. 1919	1914	1909
January	128,313	58,748	*54,719*	87.4	78.1	74.0	July	141,701	72,996	70,744	96.5	97.1	95.7
February	*89,914*	62,691	60,419	61.2	83.4	81.7	August	146,135	73,757	72,990	99.5	98.1	98.7
March	122,770	69,411	66,778	83.6	92.3	90.3	September	**146,872**	70,227	73,617	100.0	93.4	99.6
April	137,395	73,351	71,091	93.5	97.6	96.1	October	142,083	64,047	**73,949**	96.7	85.2	100.0
May	141,028	74,736	72,717	96.0	99.4	98.3	November	133,821	58,243	72,614	91.1	77.5	98.2
June	141,474	**75,182**	72,159	96.3	100.0	97.6	December	123,630	*58,071*	67,645	84.2	70.6	91.5

[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	132,928	128,313	*89,914*	122,770	137,395	141,028	141,474	141,701	146,135	**146,872**	142,083	133,821	123,630	61.2
Males	125,403	121,934	*83,954*	116,676	131,249	134,608	134,382	133,621	137,543	**137,671**	132,791	124,980	115,427	61.0
Females	7,525	6,379	*5,960*	6,094	6,146	6,420	7,092	8,080	8,592	9,201	**9,292**	8,841	8,203	64.1
Automobile repairing	1,687	*1,456*	1,468	1,525	1,587	1,649	1,727	1,766	1,814	**1,840**	1,817	1,803	1,792	79.1
Boxes, wooden packing, except cigar boxes	679	602	*598*	642	652	671	768	720	**781**	734	724	642	614	76.6
Bread and other bakery products	1,743	1,628	*1,599*	1,622	1,657	1,672	1,728	1,741	1,745	1,812	1,878	1,912	**1,922**	83.2
Brick and tile, terra-cotta, and fire-clay products	664	405	*386*	492	544	680	755	**837**	818	804	818	757	672	46.1
Canning and preserving, fish	1,683	*610*	672	810	1,220	1,730	1,686	2,137	**3,041**	2,952	2,830	1,788	720	20.1
Canning and preserving, fruits	1,348	487	303	287	315	580	950	1,995	2,126	**2,718**	2,461	2,291	1,663	10.6
Cars and general shop construction and repairs by electric-railroad companies	679	497	499	*495*	663	678	716	739	742	766	782	**787**	784	62.9
Cars and general shop construction and repairs by steam-railroad companies	6,480	6,371	6,457	6,496	*6,280*	*6,280*	6,357	6,385	6,305	6,479	6,707	6,811	**6,832**	91.9
Condensed milk	734	*631*	662	659	680	806	**887**	843	818	728	728	699	667	71.1
Confectionery and ice cream	1,596	1,441	*1,422*	1,501	1,448	1,448	1,550	1,516	1,542	1,630	1,873	1,888	**1,893**	75.1
Engines, steam, gas, and water	546	568	*235*	435	530	636	680	**712**	661	662	563	480	392	32.7
Flour-mill and grist mill products	1,536	**1,473**	1,468	1,360	1,459	1,449	1,418	*1,332*	1,417	1,688	1,768	**1,829**	1,771	72.8
Foundry and machine-shop products	3,641	**4,289**	*2,119*	3,677	3,967	4,030	3,911	3,814	3,814	3,565	3,572	3,532	3,402	49.4
Furniture	787	665	*603*	658	739	791	812	841	854	856	858	**888**	879	67.9
Gas, illuminating and heating	637	558	*533*	539	566	578	591	629	646	731	**772**	742	759	69.0
Lumber and timber products	53,393	*38,518*	42,108	47,129	51,480	54,249	54,993	54,866	59,799	61,725	**61,910**	60,008	54,131	61.9
Lumber, planing-mill products, not including planing mills connected with sawmills	1,946	1,468	*1,445*	1,579	1,642	1,754	1,825	2,091	2,219	2,297	2,341	**2,349**	2,342	61.5
Paper and wood pulp	1,610	1,480	*1,442*	1,521	1,578	1,584	1,566	1,597	1,619	1,682	1,705	1,745	**1,801**	80.1
Printing and publishing, book and job	906	920	*880*	895	904	905	942	891	890	749	905	952	**1,039**	84.7
Printing and publishing, newspapers and periodicals	1,404	1,334	*1,301*	1,312	1,391	1,414	1,369	1,397	1,438	1,425	1,481	1,463	**1,523**	85.4
Shipbuilding, steel	29,391	**39,105**	*4,714*	26,858	36,195	37,087	36,385	35,219	33,530	32,362	27,514	22,773	20,950	12.1
Shipbuilding, wooden, including boat building	5,185	**9,287**	6,572	8,429	7,635	6,459	5,441	4,746	4,353	3,397	2,225	2,048	*1,628*	17.5
Slaughtering and meat packing	1,222	1,357	1,175	1,105	*1,102*	1,117	1,200	1,189	1,204	1,207	1,334	1,303	**1,371**	80.4
Tinware, not elsewhere specified	610	617	650	640	688	651	**754**	750	593	537	628	410	*402*	53.3
All other industries	12,821	12,746	*10,605*	12,104	12,473	12,130	12,463	12,948	13,366	13,526	13,889	**13,921**	13,681	76.2
Industries showing large proportion of females.														
Bread and other bakery products	568	557	522	530	*509*	514	541	533	542	606	639	**666**	657	76.4
Canning and preserving, fish	275	*50*	64	52	106	155	197	295	**699**	613	612	365	92	7.2
Canning and preserving, fruits	905	256	118	*104*	118	336	668	1,437	1,563	**1,964**	1,724	1,491	1,081	5.3
Condensed milk	156	128	*127*	131	133	173	196	**205**	179	162	160	149	129	62.0
Confectionery and ice cream	1,062	967	955	1,022	951	*923*	993	970	975	1,051	1,283	1,319	**1,335**	69.1
Furniture	129	109	*97*	106	117	129	135	140	135	133	145	147	**155**	62.6
Paper and wood pulp	145	125	*115*	137	126	129	148	150	160	163	156	**169**	162	71.9
Printing and publishing, book and job	211	224	*184*	192	190	207	208	202	211	196	217	234	**267**	68.9
Slaughtering and meat packing	120	144	119	110	*108*	114	112	113	117	111	**145**	129	118	74.5
Tinware, not elsewhere specified	244	259	266	253	288	290	309	**314**	219	201	263	140	*126*	40.1
Total for cities	73,825	**79,970**	*45,518*	69,395	78,834	79,682	78,472	78,264	79,114	78,660	79,091	72,875	66,025	56.9
Males	68,473	**75,200**	*40,939*	64,841	74,239	74,888	73,516	72,909	73,675	72,606	72,538	66,469	59,856	54.4
Females	5,352	4,770	4,579	*4,554*	4,595	4,794	4,956	5,355	5,439	6,054	**6,553**	6,406	6,169	69.5
ABERDEEN	2,715	2,557	*2,360*	2,799	2,935	2,702	2,555	2,767	**2,979**	2,969	2,723	2,775	2,459	79.2
Males	2,684	2,541	*2,346*	2,786	2,897	2,657	2,514	2,753	**2,963**	2,938	2,657	2,713	2,443	79.2
Females	31	16	14	*13*	38	45	41	14	16	31	**66**	62	16	19.7
BELLINGHAM	3,088	2,815	3,200	3,098	3,277	**3,628**	3,516	3,023	3,131	3,352	3,122	2,705	*2,189*	60.3
Males	2,948	2,754	3,119	3,041	3,204	**3,565**	3,355	2,862	2,906	3,008	2,927	2,550	*2,085*	58.5
Females	140	61	81	*57*	73	63	161	161	225	**344**	195	155	104	16.6
EVERETT	3,273	2,867	*2,832*	2,978	3,147	3,184	3,239	3,381	3,697	**3,724**	3,554	3,506	3,167	76.0
Males	3,155	2,794	*2,769*	2,919	3,092	3,128	3,153	3,296	3,503	**3,533**	3,336	3,286	3,051	78.4
Females	118	73	63	59	*55*	56	86	85	194	191	218	**220**	116	25.0
HOQUIAM	2,164	1,863	1,761	*1,760*	2,047	1,934	2,159	2,421	**2,497**	2,457	2,492	2,292	2,285	70.5
Males	2,125	1,822	*1,722*	1,724	2,011	1,903	2,125	2,383	**2,456**	2,408	2,447	2,250	2,249	70.1
Females	39	41	39	36	36	*31*	34	38	41	**49**	45	42	36	63.3
SEATTLE	40,843	**49,001**	*15,704*	36,744	45,607	46,122	45,625	45,000	44,697	44,021	44,344	39,430	33,821	32.0
Males	37,778	**46,107**	*12,921*	33,967	42,808	43,349	42,723	41,799	41,576	40,844	40,903	36,041	30,298	28.0
Females	3,065	2,894	2,783	2,777	2,799	*2,773*	2,902	3,201	3,121	3,177	3,441	3,389	**3,523**	78.7
SPOKANE	4,752	4,334	4,305	*4,268*	4,421	4,537	4,722	4,756	4,838	5,084	**5,302**	5,219	5,238	80.5
Males	3,852	3,567	3,542	*3,507*	3,655	3,766	3,870	3,927	3,957	4,103	**4,223**	4,092	4,135	83.0
Females	890	767	763	*761*	766	771	852	829	881	981	1,079	**1,127**	1,103	67.5
TACOMA	10,714	10,539	*9,015*	**11,388**	11,049	10,949	10,170	10,272	10,685	10,857	11,371	11,293	10,980	79.2
Males	9,911	9,743	*8,256*	**10,623**	10,307	10,183	9,386	9,465	9,920	10,077	10,468	10,406	10,098	77.7
Females	803	796	759	765	*742*	766	784	807	765	780	**903**	887	882	82.2
VANCOUVER	4,522	4,795	**5,176**	5,061	4,927	4,842	4,937	4,872	4,690	3,823	3,775	*3,492*	3,874	67.5
Males	4,458	4,780	**5,163**	5,045	4,911	4,826	4,924	4,761	4,612	3,672	3,637	*3,315*	3,850	64.2
Females	64	15	*13*	16	16	16	*13*	111	78	151	138	**177**	24	7.3
WALLA WALLA	428	*388*	390	401	408	434	440	428	431	441	**461**	455	459	84.2
Males	403	*367*	370	377	385	410	417	407	413	415	**430**	422	423	85.3
Females	25	21	20	24	23	24	23	21	*18*	26	31	33	**36**	50.0
YAKIMA	1,326	811	*775*	898	1,016	1,350	1,109	1,344	1,469	1,932	**1,947**	1,708	1,553	39.8
Males	1,149	*725*	731	852	969	1,101	1,049	1,256	1,369	**1,608**	1,510	1,394	1,224	45.1
Females	177	86	*44*	46	47	249	60	88	100	324	**437**	314	329	10.1

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	132,928	41,473	3,264	80,036	730	2,835	2,612	1,679	299
	1914	67,205	(2)	(2)	10,518	1,464	7,331	4,259	40,855	2,778
	1909	69,120	(2)	(2)	5,677	1,725	7,986	1,619	48,781	3,332
Automobile repairing	1919	1,687	239	.....	924	17	439	22	40	6
	1914	67	(2)	(2)	12	.....	41	.....	14	.....
Boxes, wooden packing, except cigar boxes	1919	679	48	.....	631	.....	.....	.....	.....	.....
	1914	338	(2)	(2)	17	27	5	44	245	.....
Bread and other bakery products	1919	1,743	65	29	1,596	2	16	29	6	.....
	1914	1,419	(2)	(2)	861	137	237	55	105	24
Brick and tile, terra-cotta, and fire-clay products	1919	664	.....	.....	595	.....	61	.....	8	.....
	1914	962	(2)	(2)	29	368	261	90	214	.....
Canning and preserving, fish	1919	1,683	25	.....	1,251	14	59	.....	273	61
	1914	1,715	(2)	(2)	51	.....	604	.....	820	240
Canning and preserving, fruits	1919	1,348	.....	.....	441	215	76	.....	616	.....
	1914	367	(2)	(2)	12	21	4	.....	330	.....
Cars and general shop construction and repairs by electric-railroad companies.	1919	679	.....	.....	483	.....	180	16	.....	.....
	1914	382	(2)	(2)	5	.....	218	2	.....	157
Cars and general shop construction and repairs by steam-railroad companies.	1919	6,480	.....	2,369	3,778	.....	.....	333	.....	.....
	1914	4,543	(2)	(2)	1,791	111	288	2,192	26	135
Condensed milk	1919	734	.....	.....	.....	.....	536	112	29	57
	1914	436	.....	.....	.....	.....	.....	3	43	390
Confectionery and ice cream	1919	1,596	415	84	1,014	22	5	34	17	5
	1914	638	(2)	(2)	436	39	53	15	38	57
Engines, steam, gas, and water	1919	546	527	.....	19	.....	.....	.....	.....	.....
	1914	21	(2)	(2)	4	10	5	.....	2	.....
Flour-mill and gristmill products	1919	1,536	1	6	1,129	2	79	.....	300	19
	1914	928	(2)	(2)	156	59	8	43	655	7
Foundry and machine-shop products [3]	1919	3,661	1,777	5	1,482	140	72	162	23	.....
	1914	1,850	(2)	(2)	361	18	1,443	.....	28	.....
Furniture	1919	787	113	.....	666	.....	7	.....	1	.....
	1914	544	(2)	(2)	87	167	19	.....	271	.....
Gas, illuminating and heating	1919	637	.....	.....	156	.....	.....	425	.....	56
	1914	630	(2)	(2)	63	76	18	84	383	6
Lumber and timber products	1919	53,393	255	89	52,533	.....	338	20	158	.....
	1914	36,461	(2)	(2)	297	7	1,051	268	34,767	71
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	1,946	172	4	1,702	.....	23	.....	45	.....
	1914	1,273	(2)	(2)	71	4	349	33	816	.....
Paper and wood pulp [4]	1919	1,610	.....	.....	1,610	.....	.....	.....	.....	.....
Printing and publishing, book and job	1919	906	144	9	745	8	.....	.....	.....	.....
	1914	932	(2)	(2)	913	9	7	2	.....	1
Printing and publishing, newspapers and periodicals	1919	1,404	449	227	715	6	6	.....	.....	1
	1914	1,302	(2)	(2)	1,190	19	55	25	13	.....
Shipbuilding, including boat building	1919	34,576	33,203	.....	1,373	.....	.....	.....	.....	.....
	1914	1,444	(2)	(2)	351	.....	1,085	.....	8	.....
Slaughtering and meat packing	1919	1,222	4	.....	785	5	422	.....	6	.....
	1914	864	.....	.....	.....	.....	.....	100	764	.....
Tinware, not elsewhere specified	1919	610	84	.....	351	159	.....	16	.....	.....
	1914	60	(2)	(2)	1	.....	43	5	11	.....
All other industries	1919	12,801	3,952	442	6,057	140	516	1,443	157	94
	1914	10,029	(2)	(2)	3,810	392	1,537	1,298	1,302	1,690
Total for cities	1919	73,825	36,159	2,942	30,815	531	1,272	1,760	264	82
	1914	30,573	(2)	(2)	8,337	950	5,510	2,335	13,083	358
ABERDEEN	1919	2,715	705	3	2,003	1	.....	3	.....	.....
	1914	1,568	(2)	(2)	125	.....	40	.....	1,400	3
BELLINGHAM	1919	3,088	89	26	2,918	.....	37	18	.....	.....
	1914	1,922	(2)	(2)	130	7	607	46	1,052	80
EVERETT	1919	3,273	259	44	2,856	2	45	48	18	1
	1914	1,959	(2)	(2)	198	31	39	1	1,655	35
HOQUIAM	1919	2,164	56	.....	2,107	.....	1	.....	.....	.....
	1914	1,657	(2)	(2)	57	.....	71	.....	1,529	.....
SEATTLE	1919	40,843	29,812	733	9,068	147	479	552	51	1
	1914	12,429	(2)	(2)	4,581	568	3,225	793	3,092	170
SPOKANE	1919	4,752	171	31	3,793	66	472	148	14	57
	1914	3,020	(2)	(2)	1,107	99	712	117	958	27
TACOMA	1919	10,714	1,078	1,783	6,856	99	46	849	1	2
	1914	6,765	(2)	(2)	1,699	244	620	1,354	2,821	27
VANCOUVER	1919	4,522	3,945	322	138	.....	34	2	76	5
	1914	360	(2)	(2)	260	1	17	.....	82	.....
WALLA WALLA	1919	428	.....	.....	190	.....	115	63	44	16
	1914	311	(2)	(2)	82	.....	95	24	102	8
YAKIMA	1919	1,326	44	.....	886	216	43	77	60	.....
	1914	582	(2)	(2)	98	.....	84	.....	392	8

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

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	4,918	132,928	651	2,474	5,345	959	10,924	397	12,744	175	12,657	190	30,899	44	14,822	20	14,392	8	31,145
Automibile repairing	562	1,687	78	403	822	79	812	2	53										
Boxes, wooden packing, except cigar boxes	16	679		4	8	4	38	4	157	1	75	3	401						
Bread and other bakery products	364	1,743	79	225	462	50	573	4	117	2	126	4	465						
Brick and tile, terra-cotta, and fire-clay products	35	664		10	27	14	166	9	346	2	125								
Canning and preserving, fish	66	1,683		13	33	29	364	18	576	5	335			1	375				
Canning and preserving, fruits	30	1,348	2	7	19	6	53	9	328	3	182	2	344	1	422				
Cars and general shop construction and repairs by electric-railroad companies	16	679		6	14	2	29	4	120	2	111	1	109	1	296				
Cars and general shop construction and repairs by steam-railroad companies	35	6,480		3	14	4	58	6	231	4	290	11	1,543	4	1,518	2	1,751	1	1,075
Condensed milk	14	734		2	6	3	47	2	76	5	335	2	270						
Confectionery and ice cream	119	1,596	13	58	151	32	308	11	302	3	228	1	197	1	410				
Engines, steam, gas, and water	13	546	1	2	6	4	62	1	36	4	314	1	128						
Flour-mill and gristmill products	119	1,536	10	72	148	22	276	8	240	3	222	4	650						
Foundry and machine-shop products	233	3,641	21	118	265	57	630	18	572	11	742	6	911	2	521				
Furniture	59	787	11	28	78	12	143	4	131	2	161	2	274						
Gas, illuminating and heating	12	637		3	4	2	22	4	99	2	152			1	360				
Lumber and timber products	1,130	53,393	25	415	920	279	3,383	171	5,609	84	6,164	118	20,068	27	8,794	9	6,186	2	2,269
Lumber, planing-mill products, not including planing mills connected with sawmills	86	1,946	5	31	85	25	325	21	659	1	54	2	324	1	499				
Paper and wood pulp	6	1,610								2	159	3	623			1	828		
Printing and publishing, book and job	232	906	56	128	241	40	398	8	267										
Printing and publishing, newspapers and periodicals	316	1,404	139	144	264	22	262	4	102	3	235	4	541						
Shipbuilding, steel	9	29,391						1	39			1	128			2	1,423	5	27,801
Shipbuilding, wooden, including boat building	67	5,185	7	23	39	13	180	5	153	6	434	8	1,384	2	677	3	2,318		
Slaughtering and meat packing	29	1,222	3	13	39	5	42	1	28	3	198	2	307	2	608				
Tinware, not elsewhere specified	6	610		1	3	2	22			1	84	1	159	1	342				
All other industries	1,344	12,821	201	765	1,697	253	2,731	82	2,503	26	1,931	14	2,073			3	1,886		
Total for cities	2,474	73,825	318	1,210	2,790	558	6,194	193	6,029	78	5,687	81	13,030	18	5,816	13	9,897	5	24,382
ABERDEEN	73	2,715	9	32	66	14	148	3	73	6	400	8	1,345			1	683		
BELLINGHAM	110	3,088	16	57	128	20	241	8	238	1	83	5	914	2	661	1	823		
EVERETT	127	3,273	11	65	139	27	307	15	467	2	154	5	1,015	1	314	1	377		
HOQUIAM	38	2,164	1	19	36	5	49	6	219	1	89	5	1,061			1	710		
SEATTLE	1,229	40,843	163	579	1,329	297	3,271	102	3,158	42	3,004	30	4,589	8	2,438	5	3,660	3	19,394
SPOKANE	364	4,752	51	200	472	73	816	20	660	7	505	11	1,609	2	690				
TACOMA	348	10,714	52	154	371	75	857	27	846	16	1,258	16	2,282	4	1,401	3	2,525	1	1,174
VANCOUVER	39	4,522	3	22	60	6	65	4	133	2	138			1	312			1	3,814
WALLA WALLA	69	428	8	43	91	13	152	4	129	1	56								
YAKIMA	77	1,326	4	39	98	28	288	4	106			1	215			1	619		

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	4,918	3,829	3,674	132,928	67,205	69,120	$809,622,984	$245,326,456	$220,746,421	$366,445,453	$108,717,147	$102,858,733
Less than $5,000	1,100	1,327	902	530	1,069	963	2,884,381	3,277,559	2,397,468	1,953,854	2,225,976	1,639,474
$5,000 to $20,000	1,517	1,213	1,276	3,606	4,537	5,918	16,171,987	13,043,612	13,824,059	10,282,117	7,828,292	8,598,987
$20,000 to $100,000	1,330	850	1,073	12,810	13,280	18,671	61,124,524	39,264,264	47,224,421	33,852,870	19,981,501	26,287,103
$100,000 to $500,000	673	361	403	26,962	38,400	37,553	148,750,550	84,468,833	114,920,746	71,145,504	55,698,769	55,916,259
$500,000 to $1,000,000	163	47		21,908			112,442,853	33,912,139		58,925,958		
$1,000,000 and over	135	31	20	67,112	9,919	6,015	468,248,689	71,360,049	42,379,727	190,285,150	22,982,609	10,416,910
	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	22.4	34.7	24.6	0.4	1.6	1.4	0.4	1.3	1.1	0.5	2.0	1.6
$5,000 to $20,000	30.8	31.7	34.7	2.7	6.8	8.6	2.0	5.3	6.3	2.8	7.2	8.4
$20,000 to $100,000	27.0	22.2	29.2	9.6	19.8	27.0	7.5	16.0	21.4	9.2	18.4	25.6
$100,000 to $500,000	13.7	9.4	11.0	20.3	57.1	54.3	18.4	34.4	52.1	19.4	51.2	54.4
$500,000 to $1,000,000	3.3	1.2		16.5			13.9	13.8		16.1		
$1,000,000 and over	2.7	0.8	0.5	50.5	14.8	8.7	57.8	29.1	19.2	51.9	21.1	10.1

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	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
AUTOMOBILE REPAIRING	562	26	100.0	100.0	1,687	67	100.0	100.0	$6,952,681	$149,183	100.0	100.0	$4,537,659	$111,665	100.0	100.0
Less than $5,000	211	16	37.5	61.5	126	22	7.5	32.8	580,853	45,921	8.4	30.8	429,795	36,335	9.5	32.5
$5,000 to $20,000	259	10	46.1	38.5	737	45	43.7	67.2	2,664,752	103,262	38.3	69.2	1,853,584	75,330	40.8	67.5
$20,000 to $100,000	88	.....	15.7	.....	735	.....	43.6	.....	3,214,086	.....	46.2	.....	2,011,730	.....	44.3	.....
$100,000 to $500,000	4	.....	0.7	.....	89	.....	5.3	.....	492,990	.....	7.1	.....	242,550	.....	5.3	.....
BREAD AND OTHER BAKERY PRODUCTS	364	390	100.0	100.0	1,743	1,419	100.0	100.0	15,043,030	6,572,356	100.0	100.0	5,896,922	3,024,636	100.0	100.0
Less than $5,000	63	166	17.3	42.6	12	73	0.7	5.1	177,741	464,511	1.2	7.1	72,868	220,146	1.3	7.3
$5,000 to $20,000	158	169	43.4	43.3	205	347	11.8	24.5	1,789,843	1,730,841	11.9	26.3	709,082	796,833	12.2	26.3
$20,000 to $100,000	112	46	30.8	11.8	538	443	30.9	31.2	4,624,275	1,667,350	30.7	25.4	1,721,879	748,837	29.7	24.8
$100,000 to $500,000	26	[1] 9	7.1	2.3	459	[1] 556	26.3	39.2	4,700,362	[1] 2,709,654	31.2	41.2	1,656,060	[1] 1,258,820	28.5	41.6
$500,000 to $1,000,000	5	.....	1.4	.....	529	.....	30.3	.....	3,750,809	.....	24.9	.....	1,646,133	.....	28.4	.....
BUTTER	101	88	100.0	100.0	475	412	100.0	100.0	12,990,885	6,133,788	100.0	100.0	2,260,404	1,188,212	100.0	100.0
Less than $20,000	10	26	9.9	29.5	7	36	1.5	8.8	125,165	476,240	1.0	7.8	26,684	119,481	1.2	10.0
$20,000 to $100,000	55	49	54.5	55.7	135	147	28.4	35.7	3,209,736	2,311,116	24.7	37.7	511,271	331,017	22.6	27.9
$100,000 to $500,000	31	[1] 13	30.7	14.8	157	[1] 229	33.1	55.6	6,260,811	[1] 3,346,432	48.2	54.6	933,099	[1] 737,714	41.3	62.1
$500,000 to $1,000,000	5	.....	5.0	.....	176	.....	37.1	.....	3,395,173	.....	26.1	.....	789,350	.....	34.9	.....
CANNING AND PRESERVING, FISH	66	48	100.0	100.0	1,683	1,715	100.0	100.0	15,860,141	7,634,076	100.0	100.0	5,559,408	3,524,944	100.0	100.0
Less than $5,000	3	.....	4.5	.....	4	.....	0.2	.....	8,175	.....	0.1	.....	4,405	.....	0.1	.....
$5,000 to $20,000	5	[2] 9	7.6	18.7	20	[2] 37	1.2	2.2	51,843	[2] 84,295	0.3	1.1	23,898	[2] 41,916	0.4	1.2
$20,000 to $100,000	16	15	24.2	31.2	133	295	7.9	17.2	884,744	824,202	5.6	10.8	277,487	434,169	5.0	12.3
$100,000 to $500,000	37	[3] 24	56.1	50.0	874	[3] 1,383	51.9	80.6	10,047,078	[3] 6,725,579	63.3	88.1	3,008,460	[3] 3,048,859	54.1	86.5
$500,000 and over	5	.....	7.6	.....	652	.....	38.7	.....	4,868,301	.....	30.7	.....	2,245,158	.....	40.4	.....
CANNING AND PRESERVING, FRUITS	30	18	100.0	100.0	1,348	367	100.0	100.0	9,295,891	1,120,149	100.0	100.0	3,416,145	305,604	100.0	100.0
Less than $20,000	9	9	30.0	50.0	44	48	3.3	13.1	80,067	90,464	0.9	8.1	36,445	34,284	1.1	11.2
$20,000 to $100,000	7	[1] 9	23.3	50.0	94	[1] 319	7.0	86.9	293,484	[1] 1,029,685	3.2	91.9	121,928	[1] 271,320	3.6	88.8
$100,000 to $500,000	8	.....	26.7	.....	276	.....	20.5	.....	1,403,205	.....	15.1	.....	599,428	.....	17.5	.....
$500,000 to $1,000,000	3	.....	10.0	.....	329	.....	24.4	.....	2,062,178	.....	22.2	.....	887,943	.....	26.0	.....
$1,000,000 and over	3	.....	10.0	.....	605	.....	44.9	.....	5,456,957	.....	58.7	.....	1,770,401	.....	51.8	.....
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES	35	26	100.0	100.0	6,480	4,543	100.0	100.0	14,935,008	7,026,916	100.0	100.0	9,211,197	3,947,008	100.0	100.0
$5,000 to $20,000	4	3	11.4	11.5	22	22	0.3	0.5	38,089	40,306	0.3	0.6	35,752	29,103	0.4	0.7
$20,000 to $100,000	7	11	20.0	42.3	185	392	2.9	8.6	385,676	611,539	2.6	8.7	280,842	406,263	3.0	10.3
$100,000 to $500,000	16	8	45.7	30.8	1,755	[4] 4,129	27.1	90.9	3,745,754	2,002,786	25.1	28.5	2,776,081	[4] 3,511,642	30.1	89.0
$500,000 to $1,000,000	4	[3] 4	11.4	15.4	1,230	.....	19.0	.....	2,994,782	[3] 4,372,285	20.1	62.2	1,838,113	.....	20.0	.....
$1,000,000 and over	4	.....	11.4	.....	3,288	.....	50.7	.....	7,770,707	.....	52.0	.....	4,280,409	.....	46.5	.....
CONFECTIONERY AND ICE CREAM	119	100	100.0	100.0	1,596	638	100.0	100.0	10,301,924	2,474,506	100.0	100.0	4,618,204	1,114,151	100.0	100.0
Less than $5,000	14	27	11.8	27.0	3	18	0.2	2.8	42,096	76,372	0.4	3.1	20,939	44,770	0.5	4.0
$5,000 to $20,000	28	43	23.5	43.0	57	113	3.6	17.7	296,984	456,327	2.9	18.4	133,209	227,035	2.9	20.4
$20,000 to $100,000	55	25	46.2	25.0	334	274	20.9	42.9	2,173,590	968,852	21.1	39.2	954,894	470,505	20.7	42.2
$100,000 to $500,000	18	5	15.1	5.0	475	233	29.8	36.5	2,973,437	972,955	28.9	39.3	1,231,694	371,841	26.7	33.4
$500,000 and over	4	.....	3.4	.....	727	.....	45.6	.....	4,815,817	.....	46.7	.....	2,277,468	.....	49.3	.....
FLOUR-MILL AND GRISTMILL PRODUCTS	119	100	100.0	100.0	1,536	928	100.0	100.0	81,141,020	23,665,382	100.0	100.0	7,986,078	3,392,887	100.0	100.0
Less than $5,000	5	7	4.2	7.0	.....	2	.....	0.2	11,444	24,895	(5)	0.1	2,540	6,188	(5)	0.2
$5,000 to $20,000	22	25	18.5	25.0	13	30	0.8	3.2	237,774	286,065	0.3	1.2	51,778	65,933	0.6	1.9
$20,000 to $100,000	35	30	29.4	30.0	64	74	4.2	8.0	1,743,103	1,436,694	2.1	6.1	289,996	250,720	3.6	7.4
$100,000 to $500,000	29	[1] 31	24.4	31.0	147	[1] 362	9.6	39.0	6,699,354	[1] 8,938,838	8.3	37.8	703,476	[1] 1,250,315	8.8	36.9
$500,000 to $1,000,000	10	.....	8.4	.....	147	.....	9.6	.....	7,433,239	.....	9.2	.....	618,545	.....	7.8	.....
$1,000,000 and over	18	7	15.1	7.0	1,165	460	75.8	49.6	65,016,106	12,978,890	80.1	54.8	6,319,743	1,819,731	79.1	53.6
FOUNDRY AND MACHINE-SHOP PRODUCTS[6]	249	190	100.0	100.0	3,661	1,850	100.0	100.0	20,972,524	5,975,823	100.0	100.0	12,831,201	3,326,098	100.0	100.0
Less than $5,000	52	66	20.9	34.7	23	42	0.6	2.3	131,642	162,460	0.6	2.7	85,886	110,677	0.7	3.3
$5,000 to $20,000	76	59	30.5	31.1	164	261	4.5	14.1	730,702	660,872	3.5	11.1	496,423	443,860	3.9	13.3
$20,000 to $100,000	83	52	33.3	27.4	763	596	20.8	32.2	3,587,138	2,038,573	17.1	34.1	2,205,854	1,125,239	17.2	33.8
$100,000 to $500,000	27	[1] 13	10.8	6.8	1,057	[1] 951	28.9	51.4	5,590,485	[1] 3,113,918	26.7	52.1	3,146,274	[1] 1,646,322	24.5	49.5
$500,000 to $1,000,000	5	.....	2.0	.....	552	.....	15.1	.....	3,314,123	.....	15.8	.....	2,478,978	.....	19.3	.....
$1,000,000 and over	6	.....	2.4	.....	1,102	.....	30.1	.....	7,618,434	.....	36.3	.....	4,417,786	.....	34.4	.....
LUMBER AND TIMBER PRODUCTS	1,130	821	100.0	100.0	53,393	36,461	100.0	100.0	220,513,359	78,130,004	100.0	100.0	135,205,588	42,627,279	100.0	100.0
Less than $5,000	173	192	15.3	23.4	154	336	0.3	0.9	459,436	446,867	0.2	0.6	362,197	324,958	0.3	0.8
$5,000 to $20,000	264	196	23.4	23.9	853	1,371	1.6	3.8	2,874,113	2,220,719	1.3	2.8	2,198,942	1,459,654	1.6	3.4
$20,000 to $100,000	316	237	28.0	28.9	4,651	6,040	8.7	16.6	14,966,057	12,082,105	6.8	15.5	11,033,863	6,853,415	8.2	16.1
$100,000 to $500,000	242	168	21.4	20.5	13,830	[1] 25,591	25.9	70.2	56,608,080	41,054,300	25.7	52.5	34,514,146	[1] 30,637,549	25.5	71.9
$500,000 to $1,000,000	85	22	7.5	2.7	14,861	.....	27.8	.....	60,025,812	15,674,564	27.2	20.1	36,402,188	.....	26.9	.....
$1,000,000 and over	50	6	4.4	0.7	19,044	3,123	35.7	8.6	85,578,861	6,651,449	38.8	8.5	50,694,252	3,351,703	37.5	7.9

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

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

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
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS	86	91	100.0	100.0	1,946	1,273	100.0	100.0	$10,931,701	$4,595,765	100.0	100.0	$4,871,374	$2,015,242	100.0	100.0
Less than $5,000	9	19	10.5	20.9	4	15	0.2	1.2	17,952	52,561	0.2	1.1	10,599	30,250	0.2	1.5
$5,000 to $20,000	17	23	19.8	25.3	42	91	2.2	7.1	190,528	256,703	1.7	5.6	113,926	138,382	2.3	6.9
$20,000 to $100,000	29	39	33.7	42.9	291	466	15.0	36.6	1,429,473	1,733,886	13.1	37.7	750,473	806,094	15.4	40.0
$100,000 to $500,000	28	10	32.6	11.0	787	701	40.4	55.1	5,288,742	2,552,615	48.4	55.5	2,212,362	1,040,516	45.4	51.6
$500,000 and over	3	.....	3.5	.....	822	.....	42.2	.....	4,005,006	.....	36.6	.....	1,784,014	.....	36.6	.....
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS	316	402	100.0	100.0	1,404	1,302	100.0	100.0	11,954,252	6,856,299	100.0	100.0	9,156,359	5,254,016	100.0	100.0
Less than $5,000	150	251	47.5	62.4	47	147	3.3	11.3	373,425	618,463	3.1	9.0	294,635	536,184	3.2	10.2
$5,000 to $20,000	119	113	37.7	28.1	218	286	15.5	22.0	1,147,204	1,090,530	9.6	15.9	954,797	933,435	10.4	17.8
$20,000 to $100,000	31	27	9.8	6.7	213	225	15.2	17.3	1,357,157	1,332,902	11.4	19.4	1,135,883	1,204,538	12.4	22.9
$100,000 to $500,000	10	[1] 11	3.2	2.7	377	[1] 644	26.9	49.5	1,962,279	[1] 3,814,404	16.4	55.6	1,454,699	[1] 2,579,859	15.9	49.1
$500,000 to $1,000,000	3	.....	0.9	.....	166	.....	11.8	.....	1,907,437	.....	16.0	.....	1,579,389	.....	17.2	.....
$1,000,000 and over	3	.....	0.9	.....	383	.....	27.3	.....	5,206,750	.....	43.6	.....	3,736,956	.....	40.8	.....
SHIPBUILDING, INCLUDING BOAT BUILDING	76	64	100.0	100.0	34,576	1,444	100.0	100.0	166,519,787	3,101,446	100.0	100.0	92,473,570	2,114,583	100.0	100.0
Less than $5,000	17	28	22.4	43.8	9	21	(2)	1.5	45,553	64,122	(2)	2.1	30,412	43,973	(2)	2.1
$5,000 to $20,000	13	22	17.1	34.4	35	134	0.1	9.3	120,831	238,192	0.1	7.7	77,937	149,149	0.1	7.1
$20,000 to $100,000	16	11	21.1	17.2	279	151	0.8	10.5	1,030,823	412,111	0.6	13.3	611,189	221,571	0.7	10.5
$100,000 to $500,000	9	[3] 3	11.8	4.7	701	[3] 1,138	2.0	78.8	2,428,750	[3] 2,387,021	1.5	77.0	1,371,073	[3] 1,699,890	1.5	80.4
$500,000 to $1,000,000	6	.....	7.9	.....	697	.....	2.0	.....	3,685,791	.....	2.2	.....	2,646,120	.....	2.9	.....
$1,000,000 and over	15	.....	19.7	.....	32,855	.....	95.0	.....	159,208,039	.....	95.6	.....	87,736,839	.....	94.9	.....
SLAUGHTERING AND MEAT PACKING	29	11	100.0	100.0	1,222	864	100.0	100.0	34,388,584	18,443,526	100.0	100.0	5,264,132	2,542,752	100.0	100.0
$5,000 to $20,000	4	.....	13.8	.....	4	.....	0.3	.....	66,955	.....	0.2	.....	28,866	.....	0.5	.....
$20,000 to $100,000	8	3	27.6	27.3	19	5	1.6	0.6	357,254	116,843	1.0	0.6	78,622	26,854	1.5	1.1
$100,000 to $500,000	[4] 11	[4] 3	37.9	27.3	[4] 142	[4] 53	11.6	6.1	[4] 3,099,906	[4] 1,208,329	9.0	6.6	[4] 712,420	[4] 203,930	13.5	8.0
$1,000,000 and over	6	5	20.7	45.5	1,057	806	86.5	93.3	30,864,469	17,118,354	89.8	92.8	4,444,224	2,311,968	84.4	90.9

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

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. Average number.	WAGE EARNERS. Per cent of total.	VALUE OF PRODUCTS. Amount.	VALUE OF PRODUCTS. Per cent of total.	VALUE ADDED BY MANUFACTURE. Amount.	VALUE ADDED BY MANUFACTURE. Per cent of total.
ABERDEEN	73	2,715	100.0	$15,757,723	100.0	$8,096,575	100.0
Less than $5,000	16	6	0.2	46,164	0.3	34,849	0.4
$5,000 to $20,000	17	38	1.4	185,032	1.2	121,530	1.5
$20,000 to $100,000	17	124	4.6	903,741	5.7	461,052	5.7
$100,000 to $500,000	14	683	25.2	3,005,462	19.1	1,630,384	20.1
$500,000 to $1,000,000	5	647	23.8	3,979,027	25.3	1,834,686	22.7
$1,000,000 and over	4	1,217	44.8	7,638,297	48.5	4,014,074	49.6
BELLINGHAM	110	3,088	100.0	17,807,631	100.0	7,838,210	100.0
Less than $5,000	26	12	0.4	78,507	0.4	46,767	0.6
$5,000 to $20,000	31	65	2.1	318,370	1.8	185,416	2.4
$20,000 to $100,000	36	307	9.9	1,673,967	9.4	850,558	10.9
$100,000 to $500,000	9	405	13.1	2,286,127	12.8	1,051,088	13.4
$500,000 to $1,000,000	4	576	18.7	3,113,951	17.5	1,308,192	16.7
$1,000,000 and over	4	1,723	55.8	10,336,709	58.0	4,396,189	56.1
EVERETT	127	3,273	100.0	21,886,682	100.0	9,979,678	100.0
Less than $5,000	22	11	0.3	58,133	0.3	36,828	0.4
$5,000 to $20,000	50	137	4.2	601,241	2.7	347,150	3.5
$20,000 to $100,000	27	232	7.1	1,302,449	5.9	660,088	6.6
$100,000 to $500,000	18	488	14.9	3,535,007	16.2	1,607,968	16.1
$500,000 to $1,000,000	3	326	10.0	2,232,328	10.2	902,464	9.0
$1,000,000 and over	7	2,079	63.5	14,157,524	64.7	6,425,180	64.4
HOQUIAM	38	2,164	100.0	11,872,031	100.0	5,565,158	100.0
Less than $5,000	6	6	0.3	17,905	0.1	15,284	0.3
$5,000 to $20,000	12	31	1.4	114,116	1.0	69,664	1.3
$20,000 to $100,000	7	48	2.2	269,777	2.3	146,589	2.6
$100,000 to $500,000	7	308	14.2	1,575,238	13.3	798,419	14.3
$500,000 and over	6	1,771	81.8	9,894,995	83.3	4,535,202	81.5
SEATTLE	1,229	40,843	100.0	274,431,239	100.0	124,780,864	100.0
Less than $5,000	214	78	0.2	569,670	0.2	375,642	0.3
$5,000 to $20,000	364	780	1.9	3,967,741	1.4	2,468,999	2.0
$20,000 to $100,000	408	3,665	9.0	18,877,231	6.9	10,679,080	8.6
$100,000 to $500,000	177	5,350	13.1	38,498,381	14.0	16,533,505	13.2
$500,000 to $1,000,000	31	2,989	7.3	20,143,160	7.3	9,431,988	7.6
$1,000,000 and over	35	27,981	68.5	192,375,056	70.1	85,291,650	68.4
SPOKANE	364	4,752	100.0	$40,149,381	100.0	$14,497,804	100.0
Less than $5,000	82	30	0.6	201,291	0.5	124,684	0.9
$5,000 to $20,000	118	275	5.8	1,292,855	3.2	807,167	5.6
$20,000 to $100,000	114	960	20.2	4,825,504	12.0	2,414,651	16.7
$100,000 to $500,000	29	992	20.9	5,782,029	14.4	2,590,359	17.9
$500,000 to $1,000,000	11	1,041	21.9	7,567,072	18.8	3,935,183	27.1
$1,000,000 and over	10	1,454	30.6	20,480,630	51.0	4,625,760	31.9
TACOMA	348	10,714	100.0	103,171,756	100.0	29,898,339	100.0
Less than $5,000	56	18	0.2	155,588	0.1	104,758	0.4
$5,000 to $20,000	100	213	2.0	1,100,483	1.1	681,609	2.3
$20,000 to $100,000	104	840	7.8	4,892,329	4.7	2,314,733	7.7
$100,000 to $500,000	61	2,276	21.2	14,032,219	13.6	6,352,614	21.2
$500,000 to $1,000,000	14	1,837	17.1	9,666,630	9.4	5,456,960	18.3
$1,000,000 and over	13	5,530	51.6	73,324,507	71.1	14,987,665	50.1
VANCOUVER	39	4,522	100.0	21,251,700	100.0	9,322,160	100.0
Less than $5,000	7	6	0.1	17,093	0.1	8,164	0.1
$5,000 to $20,000	13	39	0.9	158,979	0.7	110,646	1.2
$20,000 to $100,000	8	74	1.6	400,684	1.9	212,997	2.3
$100,000 and over	11	4,403	97.4	20,674,944	97.3	8,990,353	96.4
WALLA WALLA	69	428	100.0	4,322,636	100.0	1,466,306	100.0
Less than $5,000	13	3	0.7	28,791	0.7	19,432	1.3
$5,000 to $20,000	27	57	13.3	297,685	6.9	189,526	12.9
$20,000 to $100,000	21	182	42.5	945,926	21.9	537,706	36.7
$100,000 and over	8	186	43.5	3,050,234	70.6	719,642	49.1
YAKIMA	77	1,326	100.0	5,766,980	100.0	3,157,621	100.0
Less than $5,000	8	8	0.6	23,746	0.4	12,648	0.4
$5,000 to $20,000	24	72	5.4	290,245	5.0	178,916	5.7
$20,000 to $100,000	33	235	17.7	1,458,610	25.3	834,095	26.4
$100,000 and over	12	1,011	76.2	3,994,379	69.3	2,131,962	67.5

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	2,011	1,913	994	132,928	6,918	120,361	5,649	5.2	90.5	4.2	$809,622,984	$38,257,362	$739,639,897	$31,725,725	4.7	91.4	3.9
	1914	1,714	1,454	661	67,205	4,643	59,171	3,391	6.9	88.0	5.0	245,326,456	17,304,674	216,661,919	11,359,863	7.1	88.3	4.6
	1909	1,445	1,444	785	69,120	6,814	57,107	5,199	9.9	82.6	7.5	220,746,421	20,580,962	185,171,875	14,993,584	9.3	83.9	6.8
Automobile repairing	1919	265	128	169	1,687	541	793	353	32.1	47.0	20.9	6,952,681	2,362,255	3,029,393	1,561,033	34.0	43.6	22.5
	1914	15	7	4	67	24	35	8	35.8	52.2	11.9	149,183	63,017	61,182	24,984	42.2	41.0	16.7
Bread and other bakery products.	1919	246	44	74	1,743	494	1,004	245	28.3	57.6	14.1	15,043,030	4,605,851	7,870,000	2,567,179	30.6	52.3	17.1
	1914	303	27	60	1,419	553	689	177	39.0	48.6	12.5	6,572,356	2,596,081	3,160,105	816,170	39.5	48.1	12.4
Butter	1919	25	52	24	475	61	356	58	12.8	74.9	12.2	12,990,885	1,282,922	9,160,525	2,547,438	9.9	70.5	19.6
	1914	23	42	23	412	57	284	71	13.8	68.9	17.2	6,133,788	1,014,143	3,504,975	1,614,670	16.5	57.1	26.3
Canning and preserving, fish.	1919	10	54	2	1,683	[1] 70	1,613	.....	4.2	95.8	.....	15,860,141	[1] 756,028	15,104,113	.....	4.8	95.2	.....
	1914	6	38	4	1,715	47	1,604	64	2.7	93.5	3.7	7,634,076	259,723	7,157,430	216,923	3.4	93.8	2.8
Canning and preserving, fruits.	1919	6	14	10	1,348	13	1,136	199	1.0	84.3	14.8	9,295,891	74,148	7,537,549	1,684,194	0.8	81.1	18.1
	1914	5	8	5	367	20	75	272	5.4	20.4	74.1	1,120,149	95,611	291,509	733,029	8.5	26.0	65.4
Cars and general shop construction and repairs by steam - railroad companies.	1919	.....	35	.....	6,480	.....	6,480	.....	.....	100.0	.....	14,935,008	.....	14,935,008	.....	.....	100.0	.....
	1914	.....	26	.....	4,543	.....	4,543	.....	.....	100.0	.....	7,026,916	.....	7,026,916	.....	.....	100.0	.....
Condensed milk	1919	.....	14	.....	734	.....	734	.....	.....	100.0	.....	19,586,736	.....	19,586,736	.....	.....	100.0	.....
	1914	.....	6	.....	436	.....	436	.....	.....	100.0	.....	5,584,908	.....	5,584,908	.....	.....	100.0	.....
Confectionery and ice cream.	1919	48	50	21	1,596	146	1,315	135	9.1	82.4	8.5	10,301,924	1,038,317	8,415,579	848,028	10.1	81.7	8.2
	1914	48	32	20	638	119	446	73	18.7	69.9	11.4	2,474,506	423,370	1,749,775	301,361	17.1	70.7	12.2
Flour-mill and gristmill products.	1919	27	72	20	1,536	34	1,464	38	2.2	95.3	2.5	81,141,020	1,162,489	78,343,365	1,635,166	1.4	96.6	2.0
	1914	28	56	16	928	55	846	27	5.9	91.2	2.9	23,665,382	1,519,630	21,735,290	411,062	6.4	91.8	1.7
Foundry and machine-shop products.[2]	1919	88	110	51	3,661	221	3,010	430	6.0	82.2	11.7	20,972,524	1,101,957	17,504,283	2,366,284	5.3	83.5	11.3
	1914	74	76	40	1,850	127	1,524	199	6.9	82.4	10.8	5,975,823	411,657	4,973,303	590,863	6.9	83.2	9.9
Lumber and timber products.	1919	343	494	293	53,393	3,099	47,689	2,695	5.6	89.3	5.0	220,512,359	10,993,496	199,756,669	9,762,794	5.0	90.6	4.4
	1914	219	450	152	36,461	1,612	33,354	1,495	4.4	91.5	4.1	78,130,004	3,267,300	71,984,868	2,877,836	4.2	92.1	3.7
Lumber, planing - mill products, not including planing mills connected with sawmills.	1919	22	50	14	1,946	125	1,688	133	6.4	86.7	6.8	10,931,701	885,253	9,336,208	710,240	8.1	85.4	6.5
	1914	30	50	11	1,273	76	1,094	103	6.0	85.9	8.1	4,595,765	339,770	3,953,131	302,864	7.4	86.0	6.6
Printing and publishing, newspapers and periodicals.	1919	186	77	53	1,404	231	1,148	55	16.5	79.6	3.9	11,954,252	1,346,283	10,227,222	380,747	11.3	85.6	3.2
	1914	233	99	70	1,302	286	948	68	22.0	72.8	5.2	6,856,299	1,014,198	5,534,835	307,266	14.8	80.7	4.5
Shipbuilding, including boat building.	1919	23	40	13	34,576	75	33,953	548	0.2	98.2	1.6	166,519,787	292,085	163,895,783	2,331,919	0.2	98.4	1.4
	1914	35	11	18	1,444	95	1,234	115	6.6	85.5	8.0	3,101,446	273,265	2,551,020	277,161	8.8	82.3	8.9
Slaughtering and meat packing.	1919	8	17	4	1,222	81	1,135	6	6.6	92.9	0.5	34,388,584	2,754,566	31,483,029	150,989	8.0	91.6	0.4
	1914	2	7	2	864	[1] 44	820	.....	5.1	94.9	.....	18,443,526	[1] 1,161,873	17,281,653	.....	6.3	93.7	.....
Total for cities	1919	956	1,103	415	73,825	3,293	68,631	1,901	4.5	93.0	2.6	516,417,759	21,819,596	481,145,969	13,452,194	4.2	93.2	2.6
	1914	894	792	338	39,573	2,363	26,667	1,543	7.7	87.2	5.0	136,691,774	9,784,062	121,320,607	5,587,105	7.2	88.8	4.1
ABERDEEN	1919	28	32	13	2,715	275	2,402	38	10.1	88.5	1.4	15,757,723	1,725,276	13,730,474	301,973	10.9	87.1	1.9
	1914	21	27	12	1,568	40	1,255	273	2.6	80.0	17.4	4,815,113	154,260	3,910,576	750,277	3.2	81.2	15.6
BELLINGHAM	1919	52	38	20	3,088	121	2,890	77	3.9	93.6	2.5	17,807,631	692,240	16,701,412	413,979	3.9	93.8	2.3
	1914	41	32	13	1,922	95	1,792	35	4.9	93.2	1.8	6,264,307	371,217	5,784,700	108,390	5.9	92.3	1.7
EVERETT	1919	56	53	18	3,273	130	3,031	112	4.0	92.6	3.4	21,886,682	749,538	20,393,652	743,492	3.4	93.2	3.4
	1914	49	35	14	1,959	107	1,748	104	5.5	89.2	5.3	6,530,405	346,443	5,873,335	310,627	5.3	89.9	4.8
HOQUIAM	1919	13	18	7	2,164	34	2,114	16	1.6	97.7	0.7	11,872,031	191,911	11,552,680	127,440	1.6	97.3	1.1
	1914	10	18	5	1,657	28	1,622	7	1.7	97.9	0.4	5,009,410	90,549	4,890,129	28,732	1.8	97.6	0.6
SEATTLE	1919	466	566	197	40,843	1,702	38,183	958	4.2	93.5	2.3	274,431,239	12,354,630	255,592,020	6,484,589	4.5	93.1	2.4
	1914	456	301	167	12,429	1,315	10,406	708	10.6	83.7	5.7	64,475,442	5,760,442	55,879,904	2,835,096	8.9	86.7	4.4
SPOKANE	1919	144	160	60	4,752	381	4,178	193	8.0	87.9	4.1	40,149,381	1,854,506	36,985,129	1,309,746	4.6	92.1	3.2
	1914	119	111	47	3,020	311	2,546	163	10.3	84.3	5.4	16,636,309	1,003,007	15,013,615	619,687	6.0	90.2	3.7
TACOMA	1919	130	155	63	10,714	440	9,909	365	4.1	92.5	3.4	103,171,756	2,622,100	97,401,351	3,148,305	2.5	94.4	3.1
	1914	154	129	56	6,765	348	6,232	185	5.1	92.1	2.7	27,707,606	1,198,131	25,909,340	600,135	4.3	93.5	2.2
VANCOUVER	1919	13	19	7	4,522	25	4,454	43	0.6	98.5	1.0	21,251,700	284,515	20,765,185	202,000	1.3	97.7	1.0
	1914	14	9	5	360	30	312	18	8.3	86.7	5.0	1,301,048	113,906	1,083,592	103,550	8.8	83.3	8.0
WALLA WALLA	1919	30	24	15	428	74	322	32	17.3	75.2	7.5	4,322,636	633,848	3,362,650	326,138	14.7	77.8	7.5
	1914	14	21	12	311	39	251	21	12.5	80.7	6.8	2,014,673	315,347	1,566,931	132,395	15.7	77.8	6.6
YAKIMA	1919	24	38	15	1,326	111	1,148	67	8.4	86.6	5.1	5,766,980	711,032	4,661,416	394,532	12.3	80.8	6.8
	1914	16	19	7	582	50	503	29	8.6	86.4	5.0	1,937,461	430,760	1,408,485	98,216	22.2	72.7	5.1

[1] Includes the group "All others."

[2] Includes "iron and steel, welding."

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	.....	10	.....	5	.....	3	.....	2	.....	.....	.....
	1914	.....	10	.....	5	.....	2	.....	3	.....	.....	.....
	1909	.....	8	.....	5	.....	1	.....	2	.....	.....	.....
Population [1]	1920	1,356,621	642,017	47.3	72,074	5.3	150,194	11.1	419,749	30.9	714,604	52.7
	1915	1,407,865	696,791	49.5	82,702	5.9	61,985	4.4	552,104	39.2	711,074	50.5
	1910	1,141,990	521,557	45.7	96,218	8.4	83,743	7.3	341,596	29.9	620,433	54.3
Number of establishments	1919	4,918	2,474	50.3	296	6.0	585	11.9	1,593	32.4	2,444	49.7
	1914	3,829	2,024	52.9	210	5.5	184	4.8	1,630	42.6	1,805	47.1
	1909	3,674	1,629	44.3	315	8.6	277	7.5	1,037	28.2	2,045	55.7
Average number of wage earners	1919	132,928	73,825	55.5	11,155	8.4	17,075	12.8	45,595	34.3	59,103	44.5
	1914	67,205	30,573	45.5	4,478	6.7	3,881	5.8	22,214	33.1	36,632	54.5
	1909	69,120	28,508	41.2	6,264	9.1	6,820	9.9	15,424	22.3	40,612	58.8
Value of products	1919	$809,622,984	$516,417,759	63.8	$58,971,070	7.3	$142,866,069	17.6	$314,580,620	38.9	$293,205,225	36.2
	1914	245,326,456	136,691,774	55.7	15,077,705	6.1	12,794,712	5.2	108,819,357	44.4	108,634,682	44.3
	1909	220,746,421	113,145,124	51.3	19,251,918	8.7	24,462,198	11.1	69,431,008	31.5	107,601,297	48.7
Value added by manufacture	1919	366,445,453	214,602,715	58.6	27,607,820	7.5	47,716,227	13.0	139,278,668	38.0	151,842,738	41.4
	1914	108,717,147	56,409,858	51.9	6,778,223	6.2	5,427,993	5.0	44,203,672	40.7	52,307,289	48.1
	1909	102,858,733	48,932,527	47.6	8,857,786	8.6	9,516,417	9.3	30,558,324	29.7	53,926,206	52.4

[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 over 1914.	
			Amount.	Per cent.
SEATTLE.				
Flour-mill and gristmill products	$29,128,890	35.9	$21,528,181	283.2
Slaughtering and meat packing	18,031,098	52.4	6,898,391	62.0
Foundry and machine-shop products [1]	14,261,830	68.0	11,249,886	373.5
Lumber and timber products	12,737,497	5.8	7,434,435	140.2
Shipbuilding, wooden, including boat building	11,093,450	43.4	10,633,217	2,310.4
Bread and other bakery products	6,817,522	45.3	4,462,674	189.5
Printing and publishing, newspapers and periodicals	5,646,748	47.2	2,575,475	83.9
Confectionery and ice cream	5,257,504	51.0	3,737,959	246.0
Coffee, roasting and grinding	3,297,246	75.7	1,698,673	106.3
Iron and steel forgings, not made in steel works or rolling mills	2,934,249	93.0	(2)	.....
Printing and publishing, book and job	2,552,383	54.2	1,184,861	86.6
Butter	2,386,018	18.4	1,477,234	162.6
Lumber, planing-mill products, not including planing mills connected with sawmills	2,083,733	19.1	1,203,132	136.6
Engines, steam, gas, and water	1,824,664	72.2	(2)	.....
Automobile repairing	1,687,366	24.3	1,660,599	6,203.9
Copper, tin, and sheet-iron work	1,392,980	54.7	719,571	106.9
Clothing, men's	1,381,596	61.9	(2)	.....
Brass, bronze, and copper products	1,380,955	85.9	1,254,304	990.4
Pickles, preserves, and sauces	1,111,643	54.5	922,686	488.3
Electrical machinery, apparatus, and supplies	1,024,794	96.1	(2)	.....
Furniture	976,880	35.2	703,884	257.8
Jewelry	972,783	95.2	(2)	.....
Cars and general shop construction and repairs by electric-railroad companies	873,253	55.3	(2)	.....
Awnings, tents, and sails	842,308	71.7	565,755	204.6
Clothing, women's	836,707	71.4	(2)	.....
Mattresses and spring beds, not elsewhere specified	794,401	58.2	406,058	104.6
Boxes, wooden packing, except cigar boxes	761,392	22.5	(2)	.....
Food preparations, not elsewhere specified	755,555	36.6	429,022	131.4
Cars and general shop construction and repairs by steam-railroad companies	742,297	5.0	28,618	4.0
Canning and preserving, fish	704,677	4.4	116,846	19.9
Babbitt and white metal				
Bags, other than paper, not including bags made in textile mills				
Boots and shoes				
Canning and preserving, fruits	(2)	(2)	(2)	(2)
Chemicals				
Gas, illuminating and heating				
Iron and steel, steel works and rolling mills				
Liquors, malt				
Shipbuilding, steel				
Tinware, not elsewhere specified				
SPOKANE.				
Flour-mill and gristmill products	$6,966,188	8.6	$5,155,953	284.8
Confectionery and ice cream	2,760,691	26.8	2,517,225	1,033.9
Bread and other bakery products	2,542,900	16.9	653,624	34.6
Printing and publishing, newspapers and periodicals	2,408,351	20.1	1,089,027	82.5
Butter	2,164,385	16.7	(2)	.....
Lumber, planing-mill products, not including planing mills connected with sawmills	1,700,145	15.6	486,935	40.1
Boxes, wooden packing, except cigar boxes	1,176,514	34.8	(2)	.....
Printing and publishing, book and job	854,884	18.2	295,690	52.9
Automobile repairing	791,140	11.4	736,893	1,358.4
Lumber and timber products				
Slaughtering and meat packing	(2)	(2)	(2)	(2)
Structural ironwork, not made in steel works or rolling mills				
TACOMA.				
Flour-mill and gristmill products	21,089,220	26.0	14,393,989	215.0
Lumber and timber products	10,367,165	4.7	9,335,693	905.1
Lumber, planing-mill products, not including planing mills connected with sawmills	4,591,675	42.0	680,422	17.4
Shipbuilding, wooden, including boat building	4,293,954	16.8	4,243,863	8,472.3
Foundry and machine-shop products	2,583,334	12.4	1,297,947	101.0
Bread and other bakery products	2,035,708	13.5	1,201,112	143.9
Furniture	1,530,527	55.1	909,727	146.5
Confectionery and ice cream	1,299,081	12.6	910,998	234.7
Printing and publishing, newspapers and periodicals	1,281,863	10.7	541,716	73.2
Automobile repairing	755,704	10.9	(2)	.....
Food preparations, not elsewhere specified	747,715	36.2	591,338	378.1
Cars and general shop construction and repairs by steam-railroad companies				
Slaughtering and meat packing	(2)	(2)	(2)	(2)
Smelting and refining, copper				

[1] Includes "iron and steel, welding."

[2] Figures can not be shown without disclosing individual operations.

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	18,196	9,280	6,149	687,436	389,567	297,897	100.0	100.0	100.0
Owned	4,252	3,275	3,291	467,152	304,391	266,808	68.0	78.1	89.6
Steam [1]	3,629	2,899	2,957	453,306	291,923	257,249	65.9	74.9	86.4
Engines	3,543	(2)	(2)	402,007	(2)	(2)	58.5	.....	.....
Turbines	86	(2)	(2)	51,299	(2)	(2)	7.5	.....	.....
Internal-combustion engines	536	260	178	6,123	3,162	1,494	0.9	0.8	0.5
Water	87	116	156	7,723	9,306	8,065	1.1	2.3	2.7
Water wheels and turbines	62	82	117	7,293	9,068	7,842	1.1	2.3	2.6
Water motors	25	34	39	430	238	223	0.1	0.1	0.1
Rented	13,944	6,005	2,858	220,284	85,176	31,089	32.0	21.9	10.4
Electric	13,944	6,005	2,858	215,921	84,953	30,951	31.4	21.8	10.4
Other	.....	.....	.....	4,363	223	138	0.6	0.1	(3)
Electric	16,996	7,344	3,564	278,155	112,485	43,615	100.0	100.0	100.0
Rented	13,944	6,005	2,858	215,921	84,953	30,951	77.6	75.5	71.0
Generated by establishments reporting	3,052	1,339	706	62,234	27,532	12,664	22.4	24.5	29.0

[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	4,502	642,865	68,205	1,732,750	36,337	215,511
1914	4,525	490,891	69,355	1,496,957	(1)	88,491
Per cent of increase [2]	−0.5	31.0	−1.7	18.2	(1)	143.5
Brick and tile, terra-cotta, and fire-clay products	.....	54,269	1,370	1,150	39	.....
Canning and preserving, fruits	.....	5,885	.....	5,629	56	.....
Cars and general shop construction and repairs by steam-railroad companies	.....	66,752	257	105,701	182	.....
Cars, steam-railroad, not including operations of railroad companies	197	6,698	242	5,983	196	.....
Cement	.....	77,634	.....	26,500	.....	.....
Coke, not including gas-house coke	.....	54,800	.....	.....	.....	.....
Explosives	.....	166	110	48,000	.....	.....
Flour-mill and gristmill products	112	1,748	9	13,659	691	220
Foundry and machine-shop products	373	2,892	11,013	17,300	11,425	16,592
Gas, illuminating and heating	.....	163,504	2,162	111,132	.....	.....
Ice, manufactured	.....	3,873	350	.....	.....	.....
Iron and steel, steel works and rolling mills	.....	1	9	210,232	25	.....
Iron and steel forgings, not made in steel works or rolling mills	.....	201	3,581	41,272	60	.....
Liquors, malt	.....	4,915	.....	19,914	.....	.....
Lumber and timber products	67	71,425	12	348,262	8,734	.....
Paper and wood pulp	.....	19,218	.....	347,651	28	.....
Shipbuilding, steel	100	6,804	10,403	149,424	2,271	47,274
Slaughtering and meat packing	.....	12,863	2,100	1	50	.....
Sugar, beet	.....	5,208	157	.....	.....	.....
All other industries	3,653	84,009	36,430	280,940	12,580	151,425
Total for cities	710	293,898	49,682	839,355	6,811	202,468
ABERDEEN	9	6,829	76	5,138	417	1,138
BELLINGHAM	.....	8,999	574	63,693	812	1,774
EVERETT	.....	1,150	2,260	9,575	459	3,666
HOQUIAM	4	538	222	10	27	424
SEATTLE	661	148,572	18,238	490,515	3,715	123,559
SPOKANE	33	42,302	778	5,069	29	28,310
TACOMA	.....	61,836	24,439	254,526	260	15,929
VANCOUVER	.....	6,392	2,267	6,464	935	24,180
WALLA WALLA	.....	5,558	396	141	137	530
YAKIMA	3	11,722	432	4,224	20	2,958

[1] Included in figures for fuel oils.

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

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 seven of these industries in Washington are here presented.

Lumber and timber products (Table 19).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909.

Lumbering is carried on in Washington by large, well-equipped sawmills. The average cut of the 592 sawmills reporting in 1919 was 8,380,439 feet; 143 of the mills each reported a cut of over 10,000,000 feet. A large part of the logging is done with the aid of donkey engines and other mechanical equipment.

The development of this industry has been very rapid. In 1899 the state ranked sixth, but since 1905 it has been the leading state in the production of lumber, except for the year 1914 when Louisiana reported a larger cut.

In 1919 Washington produced nearly one-seventh of the total lumber cut from all species in the United States and nearly two-thirds of the total quantity cut from Douglas fir. The total cut from this species for the state was 3,876,631,000 feet, board meausre, or 78.1 per cent of the total lumber cut of the state. The cut of hemlock was 286,854,000 feet, or 5.8 per cent; spruce, 229,145,000 feet, or 4.6 per cent; western yellow pine, 217,839,000 feet, or 4.4 per cent; and cedar, 205,393,000 feet, or 4.1 per cent of the total cut for the state. Other species sawed in considerable quantities were larch, Idaho white pine, and white fir.

TABLE 19.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY.[1]		
	1919	1914	1909
Lumber.....M feet b. m..	4,961,220	3,946,189	3,862,916
Lath.....thousands..	339,058	(2)	451,384
Shingles.....thousands..	7,095,122	(2)	8,879,467

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

More than three-fourths of the total cut of shingles in the United States for 1919 was reported from this state. In most states the manufacture of shingles is carried on in connection with the sawing of lumber, but in Washington more than two-thirds of the total shingle output was produced by mills engaged exclusively in the manufacture of this product.

This state also led in the production of lath in 1919, contributing 18.1 per cent of the total output for the country.

Shipbuilding, including boat building (Tables 20 and 21).—This industry includes the building of steel and wooden vessels, as well as small craft, and the repair of such vessels. Comparisons of the 1919 figures for this industry, unlike those for any other for which totals are presented, are made with that of the special census for shipbuilding, 1916.

The number and tonnage of all vessels of 5 gross tons and over launched in 1919 and 1916 are shown, by classes, in Table 20.

TABLE 20.—SHIPBUILDING, INCLUDING BOAT BUILDING—NUMBER AND TONNAGE: 1919 AND 1916.

	1919		1916	
	Number.	Gross tonnage.	Number.	Gross tonnage.
Vessels, 5 gross tons and over.....	195	634,272	69	33,326
Steel:				
Steam.....	78	477,538	5	19,695
Motor.....	[1] 5	2,450	1	412
Unrigged.....	[1] 1	10	.....	.....
Wooden:				
Steam.....	36	115,651	7	4,224
Motor.....	38	4,258	39	3,384
Sail.....	9	22,603	3	4,988
Unrigged.....	28	11,762	14	623
Power boats, less than 5 gross tons..	43	.....	52	.....

[1] Concrete.

The total number of vessels of 5 gross tons and over launched increased from 69 in 1916 to 195 in 1919, and the gross tonnage from 33,326 to 634,272. Over three-quarters of the total tonnage launched in 1919 were steel vessels, and with very few exceptions propelled by steam power. On an average these steel vessels exceeded 6,000 tons each as compared with an average of slightly less than 4,000 in 1916. They were nearly all of a uniform type and designed for freight service.

With the single exception of wooden-motor vessels, which show a decrease of one in number, and but a small increase in tonnage, all types of craft show large increases in number and tonnage. The large increase in tonnage in 1919 was due to the exigencies growing out of the World War, and the figures can not properly be used to measure the growth of shipbuilding under normal conditions.

Nearly all of the wooden-motor vessels were constructed for the fisheries.

The value of work done upon vessels and boats of all kinds during 1919 and 1916 is shown in Table 21.

TABLE 21.—SHIPBUILDING, INCLUDING BOAT BUILDING—VALUE: 1919 AND 1916.

	1919	1916
Total value of work	$166,519,787	$10,829,812
Work done during the year on boats and vessels launched or under construction	160,722,562	9,147,402
Vessels of 5 gross tons and over	160,192,809	9,049,726
Steel	[1] 135,423,901	6,908,483
Wooden	24,768,908	2,141,243
Boats of less than 5 gross tons	529,753	97,676
Power boats of all kinds	47,650	29,916
Sailboats, rowboats, etc	482,103	67,760
Repair work	5,320,346	1,600,617
All other	476,879	81,793

[1] Includes statistics for 2 establishments engaged in the construction of concrete vessels, to avoid disclosure of the operations of individual establishments.

Flour-mill and gristmill products (Table 22).—Wheat flour was the product of chief value in 1919, as in 1914, forming 75.1 per cent and 66.3 per cent, respectively, of the total value of products of the industry in the state. Feed and offal and bran and middlings, combined, were next in value, with 23.2 per cent of the total in 1919, and 26.5 per cent in 1914. The total value of wheat flour increased $45,218,132, or 288.3 per cent, and the quantity 2,145,311 barrels, or 57 per cent, from 1914 to 1919. During this five-year period the value of feed and offal increased 214.8 per cent, and the quantity 43.9 per cent; while for bran and middlings, the value increased 182.6 per cent, and the quantity 60.4 per cent.

TABLE 22.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$81,141,020	$23,665,382	$17,852,944
Wheat flour:			
Barrels	5,910,381	3,765,070	2,804,242
Value	$60,903,485	$15,685,353	$12,484,701
Rye flour:			
Barrels	6,772	6,343	5,500
Value	$67,977	$34,887	$27,500
Corn meal and corn flour:			
Barrels	6,433	620	6,240
Value	$55,207	$3,453	$23,669
Bran and middlings:			
Tons	194,970	121,537	189,420
Value	$7,561,139	$2,675,237	$4,788,673
Feed and offal:			
Tons	173,633	120,260	
Value	$11,295,474	$3,588,665	
Breakfast foods:			
Pounds	13,081,512	8,413,648	(1)
Value	$786,931	$251,117	(1)
All other cereal products, value	$268,769	$182,195	$451,292
All other products, value	$201,948	$1,244,475	$77,109

[1] Not reported separately.

Slaughtering and meat packing (Table 23).—This table presents for the census years 1919, 1914, and 1909 the kind, number, and cost of all animals slaughtered, except goats and kids, and the cost of all other materials, which includes that for goats and kids, dressed meat purchased for curing and for making lard compounds, cottonseed oil, refrigeration, curing materials, seasoning, containers, fuel, rent of power, mill supplies, and freight. The quantities and values are presented separately for the principal products that can be shown without disclosing the operations of individual establishments. The value of the products that can not be shown separately, and that for minor and specified auxiliary products are grouped under "All other products," and include beef pickled and other cured, canned pork, canned sausage, meat puddings, scrapple, etc., oleo and other oils, hoofs, horns, etc., goat and kid skins, hog and cattle hair, wool, ice, and poultry food, to the amount of $815,754.

TABLE 23.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	$29,124,452	$15,900,774	$13,759,982
Animals slaughtered, cost	$26,645,804	$13,208,769	$11,543,546
Beeves—			
Number	132,213	85,774	117,522
Cost	$12,672,900	$5,770,209	$5,851,681
Calves—			
Number	15,718	3,571	14,218
Cost	$350,564	$51,031	$190,168
Sheep and lambs—			
Number	237,440	362,854	290,383
Cost	$2,488,850	$1,879,239	$1,394,189
Hogs—			
Number	301,429	373,321	239,352
Cost	$11,133,490	$5,508,290	$4,107,508
All other materials, cost	$2,478,648	$2,692,005	$2,216,436
PRODUCTS.			
Total value	$34,388,584	$18,443,526	$15,653,998
Fresh meat, value	$17,616,323	$10,349,059	$9,669,627
Beef—			
Pounds	64,975,261	48,921,674	69,288,504
Value	$10,784,982	$5,296,910	$6,035,883
Veal—			
Pounds	2,062,623	490,047	1,949,493
Value	$383,899	$52,871	$219,574
Mutton and lamb—			
Pounds	9,427,326	15,187,952	13,393,776
Value	$1,828,684	$1,887,127	$1,361,955
Pork—			
Pounds	15,589,312	27,016,711	16,774,450
Value	$4,006,612	$2,744,224	$1,876,529
Edible offal and other fresh meat—			
Pounds	3,689,620	4,862,441	2,060,561
Value	$618,146	$367,927	$175,686
Pork, pickled and other cured:			
Pounds	21,311,428	22,352,555	17,116,659
Value	$6,544,903	$3,064,477	$2,486,833
Sausage:			
Pounds	5,778,222	4,985,362	3,453,182
Value	$1,052,894	$540,669	$300,188
Lard:			
Pounds	7,579,586	22,914,041	9,050,739
Value	$2,198,685	$1,702,903	$1,069,633
Lard compounds:			
Pounds	7,649,806	11,126,466	(1)
Value	$1,928,338	$540,750	(1)
Tallow, oleo stock, and stearin:			
Pounds	[2] 4,488,372	4,080,450	2,939,617
Value	[2] $619,307	$201,140	$168,144
Casings:			
Pounds	662,861	(3)	(1)
Value	$90,059	(3)	(1)
Fertilizers and fertilizer materials:			
Tons	8,408	2,657	2,045
Value	$234,811	$81,345	$55,319
Hides and pelts:			
Cattle—			
Number	132,213	85,774	
Pounds	7,918,166	5,398,177	124,887
Value	$2,333,834	$902,678	7,325,634
Calf—			$902,944
Number	13,782	2,790	
Pounds	251,126	37,146	
Value	$112,046	$5,476	
Sheep—			
Number	234,564	362,854	290,298
Value	$578,270	$334,931	$326,207
All other products, value	$1,079,114	$720,098	$675,103

[1] Not reported separately.
[2] No oleo stock reported.
[3] Included in "All other products" to avoid disclosure of individual operations.

The total cost of materials increased $13,223,678, or 83.2 per cent, and the total value of products $15,945,058, or 86.5 per cent, from 1914 to 1919. These increases are due to the increase per unit of cost and value in 1919 as compared with 1914, since the total number of animals slaughtered, which is representative of the actual growth of the industry, decreased 138,720, or 16.8 per cent, in the last census period; the increase for the decade was only 25,325, or 3.8 per cent.

In value of products the industry ranked fourth in the manufacturing industries of the state.

The operations of the industry are largely centered in Seattle, the total value of products for the industry in this city in 1919 being $18,031,098, or 52.4 per cent of the entire slaughtering and meat-packing operations in the state.

Butter, cheese, and condensed milk (Table 24).—This table presents the quantity and value of the principal products of the industry in the state for 1919, 1914, and 1909. In 1919 the value of condensed milk formed 49.1 per cent of the total for the industry and butter 35.9 per cent. The value of condensed milk could not be shown separately for 1914, without the possibility of the disclosure of individual operations, but the proportionate value of butter was greater than in 1919, forming 43.3 per cent. During the five-year period 1914–1919, the value of all products for the industry increased $21,319,990, or 180.6 per cent; the value of butter increased $6,788,764, or 132.9 per cent, while the quantity increased 3,424,638 pounds, or 20.4 per cent.

TABLE 24.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$33,127,887	$11,807,897	$7,271,047
Butter:			
Pounds	20,237,682	16,813,044	11,302,591
Value	$11,896,567	$5,107,803	$3,692,931
Packed solid—			
Pounds	6,537,278	5,407,664	1,418,308
Value	$3,788,104	$1,550,648	$434,227
Prints or rolls—			
Pounds	13,700,404	11,405,380	9,884,283
Value	$8,108,463	$3,557,155	$3,258,704
Cream sold:			
Pounds	1,294,885	2,740,350	3,009,180
Value	$499,076	$407,957	$341,981
Cheese:			
Pounds	2,201,428	1,355,423	422,290
Value	$697,819	$214,710	$65,597
Condensed and evaporated milk:			
Pounds	141,887,777	(1)	53,614,242
Value	$16,250,911	(1)	$2,976,326
All other butter, cheese, and condensed-milk factory products, value	$3,399,481	$5,926,480	$47,960
All other products, value	$384,033	$150,947	$146,252

[1] Included in "All other butter, cheese, and condensed-milk factory products," to avoid the disclosure of individual operations.

Canning and preserving (Table 25).—This table shows in detail the quantity and value of the different products of the combined industry for the census years 1919, 1914, and 1909.

TABLE 25.—CANNING AND PRESERVING: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	[1] $27,515,650	[1] $9,449,549	$9,595,387
Canning and preserving, fruits and vegetables	9,295,891	1,120,149	482,895
Canning and preserving, fish and oysters	16,178,381	7,877,288	8,856,656
Pickles, preserves, and sauces	2,041,378	452,112	255,836
Canned vegetables:			
Cases	54,152	47,072	30,585
Value	$174,235	$78,677	$65,594
Canned fruits:			
Cases	1,172,144	324,723	78,936
Value	$6,611,206	$757,175	$154,392
Berries—			
Cases	432,249	218,922	36,549
Value	$3,224,980	$537,866	$72,832
Blackberries—			
Cases	242,157	(2)	(2)
Value	$1,533,625	(2)	(2)
Raspberries—			
Cases	101,791	(2)	(2)
Value	$901,188	(2)	(2)
Loganberries—			
Cases	63,950	(2)	(2)
Value	$572,333	(2)	(2)
Strawberries—			
Cases	24,351	(2)	(2)
Value	$217,834	(2)	(2)
Apples—			
Cases	308,072	33,745	22,533
Value	$1,043,548	$54,912	$42,319
Pears—			
Cases	175,105	25,850	11,549
Value	$1,038,830	$71,696	$26,058
Cherries—			
Cases	146,749	(2)	(2)
Value	$827,750	(2)	(2)
Prunes—			
Cases	50,365	(2)	(1)
Value	$220,903	(2)	(2)
Peaches—			
Cases	26,352	(2)	(2)
Value	$127,337	(2)	(2)
All other canned fruits—			
Cases	33,252	46,206	8,305
Value	$127,858	$92,701	$13,183
Dried fruits:			
Pound	4,621,485	1,766,313	5,445,017
Value	$520,856	$115,338	$258,909
Apples—			
Pounds	4,044,090	(2)	(2)
Value	$466,214	(2)	(2)
All other—			
Pounds	577,395	1,766,313	5,445,017
Value	$54,642	$115,338	$268,909
Canned fish, clams, etc.:			
Cases	1,736,205	1,152,325	(3)
Value	$13,891,865	$6,406,955	$7,690,370
Salmon—			
Cases	1,661,490	1,096,366	(3)
Value	$13,506,149	$6,156,518	$7,354,569
Clams—			
Cases	70,964	53,000	(3)
Value	$359,192	$239,716	$178,596
All other—			
Cases	3,751	2,959	(3)
Value	$26,524	$10,721	$157,205
Smoked fish:			
Pounds	1,840,034	1,619,831	4,173,700
Value	$315,354	$167,039	$415,204
Salmon—			
Pounds	1,471,093	1,231,193	3,827,000
Value	$282,112	$123,217	$389,620
Halibut—			
Pounds	(4)	129,143	191,600
Value	(4)	$12,421	$18,692
All other—			
Pounds	368,941	259,495	155,100
Value	$33,242	$31,401	$6,892
Salted fish:			
Pounds	7,050,298	8,337,998	9,763,799
Value	$658,532	$456,530	$519,143
Cod—			
Pounds	5,297,113	5,790,747	4,910,329
Value	$500,862	$247,230	$201,118
Herring—			
Pounds	1,169,135	61,997	96,500
Value	$85,445	$2,603	$3,305
All other—			
Pounds	584,050	2,485,254	4,756,970
Value	$72,225	$206,697	$314,720
All other products, including pickles, preserves, and sauces, value	$5,343,602	$1,467,835	$491,775

[1] In addition, canned fruits and vegetables, dried fruits, and pickles, preserves, and sauces, to the value of $229,716 were reported by establishments in other industries in 1919; and to the value of $16,300 in 1914.
[2] Not reported separately.
[3] Reported in pounds in 1909.
[4] Included in "All other smoked fish" to avoid disclosure of individual operations.

From 1914 to 1919 the total value of all products increased $18,066,101, or 191.2 per cent. Of this increase, $8,175,742, or 45.3 per cent, was for canned fruits and vegetables; $8,301,093, or 45.9 per cent, for canned fish and oysters; and $1,589,266, or 8.8 per cent, for pickles, preserves, and sauces. The canning of fish, clams, oysters, etc., continued to be the most important branch of the industry in Washington, the value of these products canned in 1919 constituting 58.8 per cent of the total value of all products in that year. This proportion, however, is considerably less than that shown for 1914, 83.4 per cent, due to the very large increase in 1919 over 1914 in canned fruits and vegetables, the proportion for which products increased from 11.9 per cent in 1914 to 33.8 per cent in 1919.

Printing and publishing (Table 26).—This table gives the number and aggregate circulation per issue for all newspapers and periodicals published in the state of Washington as reported at the censuses of 1919, 1914, and 1909.

TABLE 26.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total	363	438	369	1,267,768	1,376,495	1,068,554
Daily	42	43	41	518,628	456,489	317,158
Sunday	13	12	13	288,724	276,212	243,663
Semiweekly [1]	10	11	10	32,940	46,038	59,937
Weekly	255	307	268	313,718	276,979	252,396
Monthly [2]	40	59	37	112,433	317,452	195,400
All other classes [3]	3	6	.....	1,325	3,325	.....

[1] Includes in 1919 and 1914, 2 triweeklies.
[2] Includes in 1919, 3, and in 1914, 6 semimonthlies; and in 1909, 4 semimonthlies and 1 classed as "All other."
[3] Includes in 1919, 2 bimonthlies and 1 quarterly; and in 1914, 4 quarterlies and 2 semiannuals.

There was a slight decrease in total circulation during the five-year period from 1914 to 1919, due to the discontinuance of a number of monthly publications devoted to agricultural interests, reform, and trade.

The daily newspaper circulation increased by 62,139, or 13.6 per cent, during the five-year period, and 201,470, or 63.5 per cent, during the decade. Of this daily circulation in 1919, 376,696, or 72.6 per cent, were reported for newspapers published in the afternoon. The increase in the afternoon circulation during the five-year period was 66,458, or 21.4 per cent, and 170,596, or 83.1 per cent, during the decade.

The Sunday newspaper circulation increased 12,512, or 4.5 per cent, during the five years, and 45,061, or 18.5 per cent, during the decade.

Notwithstanding a considerable decrease in number, the aggregate circulation of the weekly newspapers and periodicals increased 36,739, or 13.3 per cent, from 1914 to 1919, and 61,322, or 24.3 per cent, for the ten-year period.

Seventeen foreign-language publications, with a circulation of 33,022, were reported for 1919. This is a considerable reduction from the total of 31 in 1914 and a circulation of 54,660. In 1919, as in 1914, the largest class was the weekly newspaper, with a total of 12 and a circulation of 21,850. Of these weeklies, 4 were Swedish, 2 German, 2 Norwegian, 2 Italian, and 1 each English and Norwegian and English and Yiddish. The other foreign-language publications, 5 in number, were Japanese—3 afternoon newspapers with a circulation of 10,222, and 2 monthly publications.

Laundries (Table 27).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 27, however, summarizes the statistics for such laundries in the state for 1919 and 1914.

TABLE 27.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1914–1919.
	1919	1914	
Number of establishments	177	192	−7.8
Persons engaged	4,032	3,744	7.7
Proprietors and firm members	180	205	−12.2
Salaried employees	313	241	29.9
Wage earners (average number)	3,539	3,298	7.3
Primary horsepower	4,932	4,022	22.6
Capital	$3,595,777	$2,838,858	26.7
Salaries and wages	3,903,312	2,160,303	80.7
Salaries	515,812	265,045	94.6
Wages	3,387,500	1,895,258	78.7
Paid for contract work	10,728	7,160	49.8
Rent and taxes	252,571	131,329	92.3
Cost of materials	1,359,049	655,300	107.4
Amount received for work done	7,336,715	4,251,620	72.6

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

Dyeing and cleaning (Table 28).—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 the hand trades, household industries, etc.

TABLE 28.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments	46
Persons engaged	549
Proprietors and firm members	54
Salaried employees	58
Wage earners (average number)	437
Primary horsepower	395
Capital	$445,964
Salaries and wages	587,383
Salaries	107,150
Wages	480,233
Paid for contract work	8,273
Rent and taxes	37,633
Cost of materials	210,689
Amount received for work done	1,127,528

Custom gristmills (Table 29).—Statistics for custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for custom gristmills were not collected in 1914. Table 29, however, summarizes the statistics for such mills for 1919 and 1909. The value of products for custom gristmills represents the selling value of the grain milled.

TABLE 29.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1909-1919.
	1919	1909	
Number of establishments	35	21	.....
Persons engaged	43	35	.....
Proprietors and firm members	37	26	.....
Wage earners (average number)	6	9	.....
Primary horsepower	579	410	41.2
Capital	$120,256	$52,458	129.2
Wages	7,287	4,855	50.1
Rent and taxes	2,258	1,040	117.1
Cost of materials [2]	888,214	237,127	274.6
Value of products [2]	954,732	266,590	258.1

[1] Percentages are omitted where base is less than 100.
[2] Includes estimate of all grain ground.

GENERAL TABLES.

Table 30 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 selected industries in the state and in the cities of Seattle, Spokane, and Tacoma, and for cities having from 10,000 to 50,000 inhabitants, similar data for all industries combined.

Table 31 presents, for 1919, for the state as a whole and for Seattle, Spokane, and Tacoma, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants.

TABLE 30.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

THE STATE—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.		
All industries	1919	4,918	132,928	687,436	$194,968	$443,178	$809,623
	1914	3,829	67,205	389,567	51,703	136,609	245,326
	1909	3,674	69,120	297,897	49,766	117,888	220,746
Agricultural implements	1919	9	146	320	178	446	913
	1914	7	134	202	115	184	392
Automobile bodies and parts	1919	58	276	429	402	465	1,226
	1914	13	58	48	57	57	170
	1909	5	14	15	15	22	56
Awnings, tents, and sails	1919	15	107	59	165	752	1,174
	1914	19	72	40	59	277	468
	1909	19	121	42	88	562	828
Boots and shoes	1919	9	146	175	153	445	846
	1914	11	178	194	112	500	707
	1909	9	170	148	88	450	599
Boxes, paper and other, not elsewhere specified.	1919	11	329	213	249	452	973
	1914	8	133	60	58	85	216
	1909	6	110	42	46	97	197
Brass, bronze, and copper products.	1919	16	163	311	285	1,006	1,608
	1914	11	45	118	42	84	180
	1909	7	40	60	33	60	136
Bread and other bakery products.	1919	364	1,743	1,726	2,230	9,237	15,043
	1914	390	1,419	1,265	1,001	3,548	6,572
	1909	298	969	412	704	2,566	4,570
Brick and tile, terra-cotta, and fire-clay products.	1919	35	664	5,291	789	555	1,783
	1914	40	962	5,404	626	529	2,027
	1909	66	1,589	6,060	989	763	3,082
Butter, cheese, and condensed milk.	1919	130	1,228	5,095	1,582	26,848	33,128
	1914	101	860	3,212	657	9,512	11,808
	1909	97	735	2,203	457	5,676	7,271
Canning and preserving [1]	1919	127	3,394	8,244	3,154	17,613	27,516
	1914	86	2,352	4,565	1,322	5,279	9,450
	1909	80	2,029	2,433	1,272	5,046	9,595
Cars and general shop construction and repairs by electric-railroad companies.	1919	16	679	1,390	940	579	1,580
	1914	13	382	1,223	341	259	633
	1909	11	410	598	346	342	733
Cars and general shop construction and repairs by steam-railroad companies.	1919	35	6,480	6,785	8,477	5,724	14,935
	1914	26	4,543	7,160	3,541	3,080	7,027
	1909	17	2,716	3,609	1,990	2,484	4,666
Cement	1919	4	436	19,536	716	1,720	3,241
	1914	5	620	18,237	495	1,512	2,639
Chemicals	1919	8	90	1,165	123	536	1,363
	1914	4	32	89	25	259	374
Clothing, women's	1919	20	282	81	253	609	1,171
	1914	12	159	35	103	207	413
	1909	6	62	16	41	81	168
Coffee, roasting and grinding.	1919	24	215	414	237	3,166	4,357
	1914	25	193	299	117	1,592	2,237
	1909	15	131	280	76	824	1,399
Confectionery and ice cream.	1919	119	1,596	1,491	1,339	5,684	10,302
	1914	100	638	642	366	1,360	2,475
Copper, tin, and sheet-iron products.[2]	1919	116	1,019	1,182	1,275	6,645	9,232
	1914	112	415	273	355	829	1,620
	1909	81	583	207	521	903	1,946
Flour-mill and gristmill products.	1919	119	1,536	20,785	2,144	73,155	81,141
	1914	100	928	13,401	744	20,272	23,665
	1909	96	644	11,773	464	15,474	17,853
Food preparations, not elsewhere specified.	1919	40	128	644	$127	$1,401	$2,065
	1914	27	101	491	62	456	663
	1909	30	121	157	72	372	695
Foundry and machine-shop products.[3]	1919	839	6,155	18,306	9,563	12,275	31,782
	1914	243	2,128	6,645	1,834	3,000	6,837
	1909	178	2,439	5,117	1,967	3,724	7,988
Fur goods	1919	22	124	31	168	282	681
	1914	14	55	17	38	60	164
	1909	15	71	14	55	144	316
Furniture	1919	59	787	2,077	899	1,053	2,777
	1914	50	544	1,407	353	452	1,098
	1909	36	582	1,284	410	602	1,389
Gas, illuminating and heating.	1919	12	637	2,969	838	1,606	3,680
	1914	13	630	2,568	487	759	2,369
	1909	12	465	1,479	273	661	1,684
Ice, manufactured	1919	42	181	4,318	271	180	820
	1914	32	159	3,080	147	144	551
	1909	25	163	2,210	140	141	558
Iron and steel forgings, not made in steel works or rolling mills.	1919	11	346	1,795	605	1,794	3,155
	1914	4	19	123	12	26	49
Jewelry	1919	16	215	381	324	454	1,022
	1914	17	173	190	156	189	418
Leather goods [4]	1919	58	153	110	189	683	1,331
	1914	43	101	67	82	365	646
	1909	34	160	76	123	602	1,012
Liquors, malt	1919	8	141	2,967	222	1,017	1,833
	1914	25	883	6,315	933	2,801	9,458
	1909	31	765	5,675	709	2,231	6,903
Lumber and timber products.[5]	1919	1,236	56,035	436,407	83,689	93,128	234,881
	1914	939	38,079	265,848	29,336	38,474	83,536
	1909	1,263	43,749	224,455	31,327	36,879	89,155
Marble and stone work	1919	27	150	836	222	320	928
	1914	27	189	1,612	160	277	673
	1909	38	473	1,210	410	269	1,022
Mattresses and spring beds, not elsewhere specified.	1919	12	226	726	277	731	1,365
	1914	10	190	680	142	332	614
	1909	12	166	485	131	437	718
Mineral and soda waters	1919	53	123	431	166	671	1,257
	1914	60	108	293	97	212	513
	1909	49	118	158	91	171	492
Printing and publishing [6]	1919	569	2,453	3,710	3,608	4,553	17,849
	1914	638	2,341	3,093	2,092	2,435	9,824
	1909	506	2,624	2,232	2,140	2,224	9,286
Shipbuilding, including boat building.	1919	76	34,576	50,696	56,053	74,046	166,520
	1914	64	1,444	5,866	1,152	987	3,101
	1909	60	744	2,105	643	562	1,550
Slaughtering and meat packing.	1919	29	1,222	3,821	1,526	29,124	34,389
	1914	11	864	2,149	691	15,901	18,444
	1909	14	828	1,883	575	13,760	15,654
Stoves and hot-air furnaces	1919	8	131	176	188	171	530
	1914	4	53	60	44	50	143
	1909	9	72	99	53	113	211
Tobacco, cigars and cigarettes.	1919	56	144	4	155	189	540
	1914	115	215	.....	158	217	563
	1909	114	305	.....	205	240	681
All other industries	1919	510	8,473	82,339	11,187	63,863	91,186
	1914	410	4,806	32,595	3,591	20,137	32,589
	1909	435	4,952	21,360	3,312	19,406	28,333

[1] Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; "canning and preserving, oysters"; and "pickles, preserves, and sauces."
[2] Includes "tinware, not elsewhere specified."
[3] Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills."
[4] Includes "saddlery and harness" and "trunks and valises."
[5] Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."
[6] Includes "bookbinding and blank-book making" and "lithographing" in all years, and "engraving, steel and copper plate, including plate printing" in 1919.

TABLE 30.—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. (Expressed in thousands.)	Cost of materials. (Expressed in thousands.)	Value of products. (Expressed in thousands.)
SEATTLE—All industries.	1919	1,229	40,843	90,073	$63,395	$149,650	$274,431
	1914	1,014	12,429	44,001	9,935	37,770	64,475
	1909	753	11,523	38,267	8,589	28,783	50,814
Automobile bodies and parts.	1919	21	159	170	241	244	643
	1914	6	41	26	44	44	127
Awnings, tents, and sails	1919	7	77	44	123	572	842
	1914	8	47	19	36	171	277
	1909	9	72	27	58	278	428
Boxes, paper and other, not elsewhere specified.	1919	7	191	106	149	205	542
	1914	5	88	43	39	60	150
Brass, bronze, and copper products.	1919	12	133	245	248	834	1,381
	1914	5	35	81	33	52	127
Bread and other bakery products.	1919	117	788	690	1,024	4,276	6,818
	1914	132	534	653	416	1,283	2,355
	1909	78	295	148	260	893	1,550
Brick and terra-cotta products.	1919	7	151	900	220	86	423
	1914	5	79	430	69	42	176
	1909	5	137	482	100	37	259
Butter	1919	10	73	342	108	2,067	2,386
	1914	4	46	250	32	751	909
	1909	6	22	55	19	439	514
Canning and preserving [1]	1919	14	138	211	150	1,316	1,816
	1914	10	210	1,123	169	424	777
	1909	7	59	233	44	234	394
Cars and general shop construction and repairs by steam-railroad companies.	1919	3	300	376	395	277	742
	1914	5	437	207	367	303	714
Coffee, roasting and grinding.	1919	14	161	242	173	2,420	3,297
	1914	12	140	163	87	1,097	1,599
	1909	7	90	154	54	548	1,019
Confectionery and ice cream.	1919	52	745	564	731	2,775	5,258
	1914	41	381	301	209	850	1,520
Flour-mill and gristmill products.	1919	11	559	4,926	710	25,907	29,129
	1914	10	279	3,425	222	6,202	7,601
	1909	7	155	2,365	111	3,872	4,430
Food preparations, not elsewhere specified.	1919	17	60	214	56	476	756
	1914	15	52	91	32	219	327
	1909	11	65	48	39	220	442
Foundry and machine-shop products.[2]	1919	203	3,195	11,117	5,171	7,214	18,148
	1914	82	1,004	3,125	880	1,367	3,262
	1909	71	1,230	2,787	1,023	2,042	4,290
Fur goods	1919	13	77	15	99	155	372
	1914	8	32	8	20	33	91
	1909	7	37	4	32	75	150
Furniture	1919	27	214	593	298	380	977
	1914	24	100	227	75	98	273
	1909	17	166	239	139	140	405
Ice, manufactured	1919	6	71	1,617	99	60	253
	1914	4	49	1,155	43	37	209
	1909	5	61	721	53	68	225
Knit goods	1919	5	67	15	55	136	297
	1914	6	41	15	22	54	130
Lumber and timber products.[3]	1919	52	2,669	17,629	4,259	8,284	15,583
	1914	55	2,337	15,917	1,893	3,705	6,420
	1909	65	3,268	19,971	2,242	3,918	8,148
Marble and stone work, monuments and tombstones.	1919	5	30	123	43	27	156
	1914	4	27	26	28	35	80
	1909	5	54	38	47	81	218
Mattresses and spring beds, not elsewhere specified.	1919	5	108	230	138	372	794
	1914	4	110	290	87	206	388
SEATTLE—Continued. Mineral and carbonated waters.	1919	10	30	49	845	$174	$341
	1914	12	32	50	35	79	167
	1909	10	54	83	42	62	191
Models and patterns, not including paper patterns.	1919	7	24	64	57	20	107
	1914	7	16	52	11	6	35
Printing and publishing [4]	1919	193	1,053	1,651	1,778	2,361	8,669
	1914	214	1,057	1,264	952	1,148	4,613
	1909	133	1,042	791	904	1,042	4,009
Shipbuilding, wooden, including boat building.	1919	28	2,430	5,997	2,985	4,211	11,093
	1914	26	198	355	147	208	460
Slaughtering and meat packing.	1919	4	503	1,438	676	15,529	18,031
	1914	3	482	900	379	9,706	11,133
	1909	4	325	468	240	6,410	7,171
Tobacco, cigars	1919	8	61	1	73	72	258
	1914	24	56	.....	45	52	145
	1909	24	65	.....	45	46	140
All other industries	1919	371	26,776	40,504	43,291	69,200	145,319
	1914	283	4,519	13,805	3,563	9,538	20,410
	1909	282	4,326	9,653	3,137	8,378	16,831
SPOKANE—All industries.	1919	364	4,752	13,246	5,419	25,652	40,149
	1914	277	3,020	10,362	2,465	9,454	16,636
	1909	284	3,901	9,130	3,036	10,080	18,617
Bread and other bakery products.	1919	26	331	304	357	1,508	2,543
	1914	22	414	301	256	1,052	1,889
	1909	33	260	84	170	686	1,211
Confectionery and ice cream.	1919	14	497	371	274	1,568	2,761
	1914	13	66	55	45	135	243
Copper, tin, and sheet-iron work.	1919	15	73	58	115	193	456
	1914	16	64	46	66	125	266
	1909	13	111	50	120	195	408
Flour-mill and gristmill products.	1919	6	110	1,646	164	6,495	6,966
	1914	3	62	963	55	1,446	1,810
	1909	4	61	680	47	1,454	1,832
Food preparations, not elsewhere specified.	1919	9	9	65	8	180	237
	1914	4	14	49	8	16	46
Foundry and machine-shop products.[4]	1919	75	658	979	867	1,230	2,768
	1914	23	221	565	202	317	730
	1909	14	288	531	213	415	871
Furniture	1919	13	38	113	41	70	168
	1914	6	18	46	14	22	47
	1909	4	16	35	12	12	37
Lumber planing-mill products, not including planing mills connected with sawmills.	1919	10	340	1,198	345	1,151	1,700
	1914	11	359	1,568	281	699	1,213
	1909	13	634	1,613	446	937	1,835
Mineral and carbonated waters.	1919	6	16	22	17	90	159
	1914	4	7	54	8	23	53
	1909	3	8	10	8	25	60
Pickles and sauces	1919	3	13	15	12	43	63
	1914	3	9	11	5	45	82
Printing and publishing [4]	1919	54	376	608	553	762	3,364
	1914	56	338	400	329	596	1,942
	1909	46	365	387	376	477	2,120
Tobacco, cigars	1919	10	29	.....	21	29	65
	1914	14	30	.....	23	28	68
	1909	15	46	.....	38	39	108
All other industries	1919	123	2,262	7,867	2,645	12,333	18,899
	1914	102	1,418	6,304	1,173	4,950	8,247
	1909	139	2,112	5,740	1,606	5,849	10,135

[1] Includes "canning and preserving, fish," and "pickles, preserves, and sauces."

[2] Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, welding"; "machine tools"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills," in all years, and "plumbers' supplies, not elsewhere specified," in 1919 and 1914.

[3] Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "window and door screens" in 1914 and 1909.

[4] Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

[5] Includes "automobile repairing"; "iron and steel, welding"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "engines, steam, gas, and water" in 1919.

TABLE 30.—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—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horsepower.	Wages. (Expressed in thousands.)	Cost of materials. (Expressed in thousands.)	Value of products. (Expressed in thousands.)
TACOMA. All industries.	1919	348	10,714	59,557	$14,510	$73,273	$103,172
	1914	339	6,765	24,086	4,964	17,391	27,708
	1909	277	6,820	22,666	4,714	14,946	24,462
Automobile bodies and parts.	1919	9	52	74	71	104	289
	1914	3	5	3	4	5	13
Bread and other bakery products.	1919	29	256	242	307	1,197	2,036
	1914	36	180	122	116	412	835
	1909	26	164	109	84	333	567
Coffee, roasting and grinding.	1919	4	18	75	27	367	469
	1914	7	35	78	17	237	409
	1909	4	25	69	12	191	239
Confectionery and ice cream.	1919	14	217	132	187	797	1,299
	1914	11	106	106	59	205	388
Copper, tin, and sheet-iron products.[1]	1919	15	67	66	85	171	388
	1914	18	65	50	60	79	200
	1909	13	69	37	67	89	231
Flour-mill and gristmill products.	1919	8	359	5,176	588	18,910	21,089
	1914	7	258	3,047	215	6,071	6,695
	1909	5	116	2,630	76	3,430	3,844
Food preparations, not elsewhere specified.	1919	8	41	125	41	516	748
	1914	4	21	61	11	102	156
	1909	5	24	82	15	98	148
Foundry and machine-shop products.[2]	1919	57	549	2,248	871	1,477	3,615
	1914	27	370	1,014	260	695	1,321
	1909	23	392	649	289	697	1,368
TACOMA—Continued. Furniture	1919	9	495	1,229	$512	$566	$1,531
	1914	10	337	742	213	283	621
	1909	7	285	625	194	348	690
Lumber and timber products.[3]	1919	35	3,700	21,671	5,141	7,110	15,519
	1914	26	2,146	10,323	1,548	2,611	5,060
	1909	31	2,935	12,862	1,959	2,889	6,040
Marble and stone work	1919	4	62	378	94	144	399
	1914	5	70	228	63	186	374
Mineral and carbonated waters.	1919	3	13	10	23	50	114
	1914	5	14	10	10	17	48
	1909	3	10	2	7	13	45
Printing and pubilshing[4]	1919	47	382	411	446	543	1,831
	1914	58	293	546	260	282	1,158
	1909	42	293	264	253	247	1,094
Shipbuilding, wooden, including boat building.	1919	7	639	2,420	754	1,693	4,294
	1914	5	17	22	14	21	50
	1909	6	31	58	29	38	90
Tobacco, cigars and cigarettes.	1919	7	19	.....	23	33	76
	1914	15	54	.....	36	46	120
	1909	17	77	.....	47	53	150
All other industries	1919	92	3,845	25,300	5,340	39,595	49,475
	1914	102	2,794	7,734	2,078	6,138	10,260
	1909	95	2,399	5,279	1,682	6,520	9,956

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

INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horsepower.	Wages. (Expressed in thousands.)	Cost of materials. (Expressed in thousands.)	Value of products. (Expressed in thousands.)
ABERDEEN	1919	73	2,715	14,504	$4,474	$7,661	$15,758
	1914	60	1,568	13,280	1,219	2,612	4,815
	1909	43	1,509	9,582	995	2,172	3,590
BELLINGHAM	1919	110	3,088	13,717	4,344	9,069	17,808
	1914	86	1,922	10,170	1,318	3,366	6,264
	1909	96	1,566	5,176	1,027	2,422	4,600
EVERETT	1919	127	3,273	21,702	4,817	11,907	21,887
	1914	98	1,959	13,653	1,610	4,000	6,530
	1909	93	2,200	10,021	1,585	3,485	6,593
HOQUIAM	1919	38	2,164	14,732	3,409	6,307	11,872
	1914	33	1,657	12,377	1,287	3,042	5,009
VANCOUVER	1919	30	4,522	8,553	$7,088	$11,930	$21,252
	1914	28	360	936	282	557	1,301
WALLA WALLA	1919	69	428	1,744	538	2,856	4,323
	1914	47	311	1,737	250	1,216	2,015
	1909	48	388	1,500	323	1,385	2,317
YAKIMA	1919	77	1,326	2,851	1,508	2,609	5,767
	1914	42	582	2,343	402	873	1,937
	1909	35	601	1,967	373	930	2,152

[1] Includes "tinware, not elsewhere specified" in 1914.
[2] Includes "automobile repairing"; "engines, steam, gas, and water"; "iron and steel, welding"; and "structural ironwork, not made in steel works or rolling mills," in all years; "steam fittings and steam and hot-water heating apparatus" in 1914; and "hardware" in 1919.
[3] Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."
[4] Includes "bookbinding and blank-book making" and "lithographing" in 1914.

TABLE 31.—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	4,918	150,479	4,195	5,221	5,405	2,730	132,928	Se 146,872	Fe 89,914	(3)	(3)	(3)	(3)	(3)	Dollars. 574,235,183
2	Agricultural implements	9	177	8	16	6	1	146	Je 207	De 84	123	122	.....	1	.....	805,226
3	Artificial limbs	5	24	5	2	.....	1	16	No 4 19	Ap 4 14	15	14	1	.....	.....	11,030
4	Artificial stone products	34	124	25	13	4	.....	82	Je 109	Ja 34	107	107	.....	.....	.....	633,173
5	Automobile bodies and parts	58	377	58	22	9	12	276	My 4 292	Fe 247	275	270	5	.....	.....	731,895
6	Automobile repairing	562	2,591	638	119	65	82	1,687	Se 1,840	Ja 1,456	1,844	1,829	13	2	.....	3,997,777
7	Awnings, tents, and sails	15	143	13	10	7	6	107	Au 118	Ja 4 97	107	77	30	.....	.....	565,552
8	Belting, leather	5	18	6	2	1	1	8	Se 4 9	Ja 4 7	8	8	.....	.....	.....	96,739
9	Bookbinding and blank-book making	14	52	14	1	.....	.....	37	De 44	Se 27	41	22	17	2	.....	121,587
10	Boots and shoes	9	189	4	22	11	6	146	Oc 4 150	Je 140	164	113	46	3	2	727,570
11	Boxes, paper and other, not elsewhere specified	11	369	4	22	6	8	329	.....	.....	422	101	319	.....	2	662,563
12	Shipping containers and set-up paper boxes	6	212	3	11	4	3	191	De 273	Mh 136	275	63	210	.....	2	367,994
13	Cartons	5	157	1	11	2	5	138	De 200	Ja 94	147	38	109	.....	.....	294,569
14	Boxes, wooden packing, except cigar boxes	16	729	4	25	13	8	679	Au 781	Fe 598	673	609	53	8	3	2,021,071
15	Brass, bronze, and copper products	16	212	12	20	10	7	163	Ja 195	Fe 70	171	168	2	1	.....	453,884
16	Bread and other bakery products	364	2,494	406	81	153	111	1,743	.....	.....	1,956	1,266	669	19	2	4,565,105
17	Biscuit and crackers	5	537	.....	15	73	19	430	No 516	Ap 364	511	181	323	5	2	1,017,489
18	All other	359	1,957	406	66	80	92	1,313	De 1,412	Fe 1,202	1,445	1,085	346	14	.....	3,547,616
19	Brick and tile, terra-cotta, and fire-clay products	35	771	20	59	19	9	664	.....	.....	821	815	1	5	.....	4,649,919
20	Building brick	23	385	16	37	5	5	322	Jy 460	Fe 125	387	385	1	1	.....	1,752,092
21	Fire brick, sewer pipe, and drain-tile	8	233	3	12	10	2	206	Au 235	Ja 160	236	232	.....	4	.....	1,769,070
22	Terra-cotta products	4	153	1	10	4	2	136	De 198	Mh 4 84	198	198	.....	.....	.....	1,128,757
23	Brooms, from broom corn	6	91	6	5	8	3	69	De 90	Je 61	88	62	26	.....	.....	238,466
24	Butter	101	798	40	146	67	70	475	Jy 559	Fe 410	482	431	50	.....	1	3,952,981
25	Buttons	3	10	5	.....	.....	.....	5	(5) 5	(5) 5	5	.....	5	.....	.....	4,610
26	Canning and preserving, fish	66	1,930	15	133	65	34	1,683	Au 3,041	Ja 610	3,122	2,434	679	5	4	16,603,445
27	Canning and preserving, fruits	30	1,518	29	69	47	25	1,348	.....	.....	2,871	782	1,979	30	80	4,326,371
28	Canned fruits	22	1,390	20	61	42	24	1,243	Se 2,548	Fe 274	2,576	652	1,814	30	80	3,887,480
29	Dried fruits	8	128	9	8	5	1	105	No 293	Mh 10	295	130	165	.....	.....	438,891
30	Canning and preserving oysters	14	137	15	12	2	1	107	Mh 287	Jy 6	345	169	176	.....	.....	335,751
31	Carpets, rag	8	26	10	.....	1	.....	15	Ap 4 17	Fe 12	17	17	.....	.....	.....	13,800
32	Carriages and wagons, including repairs	13	36	16	.....	.....	.....	20	Mh 4 21	No 4 18	20	19	.....	1	.....	73,629
33	Cars and general shop construction and repairs by electric-railroad companies	16	711	.....	16	13	3	679	No 787	Mh 495	975	966	8	1	.....	1,535,856
34	Cars and general shop construction and repairs by steam-railroad companies	35	6,813	.....	177	103	53	6,480	De 6,832	Ap 4 6,280	6,572	6,490	82	.....	.....	11,903,741
35	Cement	4	484	.....	22	18	8	436	Au 549	Ja 242	468	463	5	.....	.....	6,200,923
36	Cheese	15	36	9	6	1	1	19	Jy 27	Ja 4 12	24	21	3	.....	.....	135,149
37	Chemicals	8	164	.....	26	27	21	90	De 108	Ap 4 76	108	108	.....	.....	.....	1,461,509
38	Cleansing preparations	4	11	5	1	2	.....	3	Oc 4 4	Ja 4 2	4	3	.....	1	.....	11,700
39	Clothing, men's	9	562	3	21	52	18	468	De 543	Ap 411	543	65	473	4	1	1,482,709
40	Clothing, women's	20	342	13	17	20	10	282	.....	.....	285	47	234	2	2	431,823
41	Suits, skirts, and cloaks	7	71	5	3	2	3	58	Mh 72	No 41	58	31	26	1	.....	141,012
42	Wrappers and house dresses	5	72	2	5	4	.....	61	My 70	Mh 53	61	3	58	.....	.....	97,624
43	All other	8	199	6	9	14	7	163	Jy 210	Ja 94	166	13	150	1	2	193,187
44	Coal-tar products	3	36	1	8	.....	1	26	Au 4 55	Ja 18	21	21	.....	.....	.....	235,988
45	Coffee, roasting and grinding	24	372	11	30	89	27	215	Jy 238	Oc 203	227	127	100	.....	.....	1,847,770
46	Coffins, burial cases, and undertakers' goods	5	90	3	10	4	1	72	Ja 82	Jy 61	69	46	23	.....	.....	354,158
47	Condensed milk	14	964	.....	41	125	64	734	Je 887	Ja 631	674	545	129	.....	.....	8,778,228
48	Confectionery and ice cream	119	1,931	101	105	31	98	1,596	.....	.....	1,896	570	1,320	2	4	4,314,598
49	Confectionery	86	1,688	70	84	19	79	1,436	De 1,751	My 1,284	1,738	433	1,299	2	4	3,739,837
50	Ice cream	33	243	31	21	12	19	160	Jy 190	Fe 134	158	137	21	.....	.....	574,761
51	Copper, tin, and sheet-iron work	110	604	115	39	25	16	409	Oc 465	Fe 233	442	437	3	2	.....	1,479,653
52	Cutlery and edge tools	3	10	2	1	.....	.....	7	No 4 8	Ja 4 6	8	7	1	.....	.....	37,775
53	Druggists' preparations	7	29	8	1	.....	.....	20	Se 23	Fe 4 18	22	15	7	.....	.....	90,516
54	Electrical machinery, apparatus, and supplies	12	268	2	32	21	23	190	Ja 274	Fe 134	226	178	48	.....	.....	1,931,181
55	Electroplating	5	15	6	1	.....	1	7	No 4 10	Ja 4 5	10	10	.....	.....	.....	13,251
56	Engines, steam, gas, and water	13	639	6	47	31	9	546	Jy 712	Fe 233	552	551	.....	1	.....	2,609,331
57	Engraving, steel and copper plate, including plate printing	3	33	2	3	.....	4	24	No 4 29	My 4 21	24	10	14	.....	.....	38,333
58	Fancy articles, not elsewhere specified	3	12	3	.....	.....	.....	9	Se 14	Je 6	8	7	1	.....	.....	4,005
59	Flour-mill and gristmill products	119	2,153	67	175	272	103	1,536	No 1,829	Jy 1,332	1,735	1,680	53	2	.....	39,058,570
60	Food preparations, not elsewhere specified	40	226	23	31	29	15	128	.....	.....	142	82	59	1	.....	927,140
61	Breadstuffs, cereals, and breakfast foods	5	12	.....	5	1	.....	6	Oc 4 8	Ja 4 5	9	5	4	.....	.....	115,988
62	Macaroni, vermicelli, and noodles	10	61	3	12	2	3	41	De 44	Fe 4 40	44	31	13	.....	.....	307,068
63	Sweetening sirups, other than cane	4	24	.....	6	5	3	10	Se 15	Mh 7	10	5	5	.....	.....	92,016
64	Other preparations for human consumption	17	113	16	8	20	9	60	Je 72	Ja 49	67	29	37	1	.....	381,370
65	For animals and fowls	4	16	4	.....	1	.....	11	Au 4 13	Je 4 8	12	12	.....	.....	.....	30,698

[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.								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.[3]		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
Dollars. 18,564,269	Dollars. 11,809,497	Dollars. 194,968,222	Dollars. 5,376,513	Dollars. 2,807,238	Dollars. 21,044,415	Dollars. 431,896,276	Dollars. 11,281,255	Dollars. 809,622,984	Dollars. 366,445,453	687,436	402,007	51,299	6,123	7,723	220,284	62,234	1
39,518	12,133	178,460	80	1,388	40,207	433,985	11,769	912,946	467,192	320	.....	.....	.....	.....	320	.....	2
10,238	351	20,810	.....	3,610	170	13,879	421	55,936	41,636	53	.....	.....	.....	.....	53	.....	3
30,012	7,808	114,520	.....	5,077	3,181	162,478	5,845	429,524	261,201	464	180	.....	29	6	249	.....	4
53,632	16,024	402,079	502,169	36,608	14,711	448,588	16,621	1,226,303	761,094	429	.....	.....	.....	.....	429	.....	5
219,555	145,848	2,494,747	36,906	276,852	60,592	2,311,886	103,136	6,952,681	4,537,659	2,311	32	.....	225	.....	2,054	1	6
34,916	18,651	165,253	1,814	17,054	34,112	751,152	1,204	1,174,066	421,710	59	.....	.....	2	.....	57	.....	7
2,500	882	11,685	.....	2,712	933	99,673	354	141,073	41,046	18	.....	.....	.....	.....	18	.....	8
1,300	.....	42,604	1,400	5,225	1,570	34,390	1,375	133,622	97,857	19	.....	.....	.....	.....	19	.....	9
53,845	24,166	153,008	.....	3,080	20,330	424,847	19,712	846,077	401,518	175	.....	.....	.....	.....	175	.....	10
69,414	18,138	249,117	.....	16,251	11,558	445,506	6,963	973,316	520,347	213	.....	.....	.....	.....	213	.....	11
37,121	8,948	146,003	.....	11,250	7,420	300,677	3,621	611,317	307,019	123	.....	.....	.....	.....	123	.....	12
32,293	9,100	103,114	.....	5,001	4,138	144,829	3,342	361,999	213,828	90	.....	.....	.....	.....	90	.....	13
92,487	28,595	747,571	.....	12,135	60,241	1,706,241	29,889	3,380,997	1,644,867	4,060	1,670	1,000	.....	35	1,355	1,000	14
83,874	13,073	284,880	20,608	10,127	9,506	985,057	20,773	1,608,367	602,537	311	.....	.....	.....	.....	311	.....	15
259,690	375,608	2,229,892	13,917	224,272	217,036	9,000,945	236,063	15,043,030	5,806,022	1,726	45	.....	5	5	1,671	44	16
58,806	155,678	360,188	11,357	24,200	125,459	1,242,372	28,988	2,489,412	1,218,052	264	45	.....	.....	.....	219	44	17
200,884	219,930	1,869,704	2,560	200,072	91,577	7,758,573	207,075	12,553,618	4,587,970	1,462	.....	.....	5	5	1,452	.....	18
133,486	34,805	789,328	1,250	7,450	39,066	185,384	369,834	1,782,566	1,227,348	5,291	3,384	.....	10	.....	1,897	390	19
73,068	11,137	409,976	1,250	7,450	17,708	83,371	183,065	901,705	635,269	2,952	1,300	.....	10	.....	1,642	165	20
40,155	16,037	216,850	.....	.....	13,928	63,521	147,449	584,489	373,519	1,424	1,409	.....	.....	.....	15	65	21
20,263	7,631	162,502	.....	.....	7,430	38,492	39,320	296,372	218,560	915	675	.....	.....	.....	240	160	22
10,857	14,733	50,329	.....	679	2,147	206,704	1,716	316,071	107,651	102	.....	.....	.....	.....	102	.....	23
180,859	138,376	588,555	3,321	35,498	60,432	10,611,350	119,131	12,990,885	2,260,404	2,877	1,127	.....	18	70	1,662	57	24
.....	.....	3,972	96	510	3	3,531	36	14,953	11,386	1	.....	.....	.....	.....	1	.....	25
437,783	159,006	1,781,027	226,383	22,655	449,883	10,137,263	163,470	15,860,141	5,559,408	6,775	4,224	72	844	4	1,631	61	26
138,636	125,037	1,035,944	1,000	13,726	103,482	5,795,272	84,474	9,295,891	3,416,145	1,032	409	.....	4	.....	619	.....	27
126,761	120,232	894,274	1,000	10,430	95,442	5,550,422	59,588	8,765,737	3,155,727	820	259	.....	2	.....	559	.....	28
11,875	4,805	141,670	.....	3,296	8,040	244,850	24,886	530,154	260,418	212	150	.....	2	.....	60	.....	29
12,400	4,393	69,624	.....	420	2,752	172,307	4,663	318,240	141,270	175	134	.....	23	5	13	.....	30
.....	634	20,413	.....	1,770	345	10,110	1,374	48,601	37,117	56	10	.....	.....	.....	46	.....	31
.....	.....	33,583	72	2,712	1,097	29,901	4,214	99,546	65,431	66	.....	.....	6	.....	60	.....	32
27,370	15,671	939,984	832	.....	17,628	547,908	30,781	1,580,174	1,001,485	1,390	30	.....	.....	.....	1,360	.....	33
441,668	204,632	8,476,604	.....	.....	91,282	5,290,982	432,829	14,935,008	9,211,197	6,785	1,853	.....	12	.....	4,920	1,417	34
64,138	40,745	716,093	.....	.....	57,180	988,175	731,971	3,241,114	1,520,968	19,536	100	.....	.....	1,500	17,936	1,500	35
5,300	630	26,879	965	1,350	1,007	463,552	6,561	550,266	80,153	146	89	.....	17	15	25	.....	36
69,473	64,637	123,135	.....	2,334	128,673	409,069	66,825	1,363,434	827,540	1,165	40	.....	8	.....	1,117	.....	37
1,512	1,818	3,181	.....	1,622	98	11,989	449	27,490	15,052	8	.....	.....	.....	.....	8	.....	38
72,361	83,890	370,093	.....	17,294	136,087	913,503	4,871	2,230,828	1,312,454	115	.....	.....	.....	.....	115	.....	39
48,077	31,469	252,922	6,088	20,027	10,690	607,048	2,263	1,171,227	561,916	81	.....	.....	.....	.....	81	.....	40
10,983	7,394	90,731	5,588	6,646	5,536	222,254	502	381,308	158,552	9	.....	.....	.....	.....	9	.....	41
9,166	3,568	44,306	.....	3,638	1,984	115,924	437	236,308	119,947	30	.....	.....	.....	.....	30	.....	42
27,928	20,507	117,891	500	9,743	3,170	268,870	1,324	553,611	283,417	42	.....	.....	.....	.....	42	.....	43
16,441	5,475	28,373	.....	2,710	4,745	222,218	14,946	367,588	130,424	115	100	.....	.....	.....	15	.....	44
109,740	238,870	236,651	300,294	35,793	41,003	3,151,773	14,320	4,356,971	1,190,878	414	.....	.....	.....	.....	414	.....	45
36,228	5,559	61,426	.....	484	18,832	245,142	4,530	453,019	203,347	152	.....	.....	.....	.....	152	.....	46
199,096	291,813	966,545	.....	2,440	756,038	15,395,573	251,418	19,586,736	3,939,745	2,072	1,124	255	.....	.....	693	476	47
328,140	517,195	1,339,181	15,743	108,245	273,682	5,582,359	101,361	10,301,924	4,618,204	1,491	75	.....	.....	14	1,402	5	48
256,057	482,953	1,101,664	15,743	90,654	258,183	4,509,088	73,791	8,401,406	3,818,527	790	25	.....	.....	14	751	5	49
72,083	34,242	237,517	.....	17,591	15,499	1,073,271	27,570	1,900,518	799,677	701	50	.....	.....	.....	651	.....	50
126,934	51,469	630,915	872	43,721	39,077	1,132,553	10,222	2,547,367	1,404,592	332	.....	.....	.....	.....	332	.....	51
1,200	.....	16,166	.....	1,920	272	12,932	800	37,300	23,568	28	.....	.....	.....	.....	28	.....	52
2,000	.....	22,862	1,205	700	428	87,417	1,743	283,475	194,315	12	.....	.....	12	.....	.....	.....	53
73,704	40,293	201,899	.....	8,668	27,982	640,064	5,638	1,066,512	420,810	632	.....	.....	.....	.....	632	.....	54
2,120	180	12,754	225	3,185	111	7,155	1,447	36,168	27,566	48	.....	.....	.....	.....	48	.....	55
175,562	63,817	774,258	5,000	13,228	49,852	1,095,500	29,966	2,527,275	1,401,809	1,519	.....	.....	.....	.....	1,519	.....	56
8,070	2,540	26,446	.....	3,895	198	18,255	496	79,884	61,133	9	.....	.....	.....	.....	9	.....	57
.....	.....	10,113	.....	1,672	102	7,652	158	52,778	44,968	1	.....	.....	.....	.....	1	.....	58
517,564	552,184	2,144,047	17,878	30,808	621,684	72,753,382	401,560	81,141,020	7,986,078	20,785	2,650	.....	305	1,984	15,846	260	59
65,215	79,554	127,120	215	19,779	26,744	1,378,982	22,111	2,064,511	663,418	644	.....	.....	.....	.....	644	.....	60
10,275	680	10,729	.....	1,860	19,790	205,336	1,921	314,246	106,989	52	.....	.....	.....	.....	52	.....	61
19,960	4,578	43,300	.....	4,456	3,151	295,585	8,700	433,772	129,487	252	.....	.....	.....	.....	252	.....	62
14,980	7,606	6,679	.....	1,587	483	124,027	1,082	172,584	47,475	7	.....	.....	.....	.....	7	.....	63
20,000	65,190	52,195	215	10,031	2,707	606,735	7,358	959,274	345,181	163	.....	.....	.....	.....	163	.....	64
.....	1,500	14,217	.....	1,845	613	147,299	3,050	184,635	34,286	170	.....	.....	.....	.....	170	.....	65

[3] No figures given for reasons stated under "Explanation of terms."
[4] Same number reported for one or more other months.
[5] Same number reported throughout the year.

TABLE 31.—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—Continued.															Dollars.
1	Foundry and machine-shop products	233	4,438	182	278	246	91	3,641			3,809	3,799	8	2		15,770,966
2	Boiler shops	17	686	15	29	37	8	597	Ja 761	Fe 107	661	660	1			2,430,384
3	Foundries	27	682	24	49	31	11	567	Ja 752	Fe 330	650	647	3			2,125,644
4	Machine shops	165	1,625	134	128	91	43	1,229	My 1,395	Fe 803	1,303	1,299	2	2		5,995,852
5	Machine shop and foundry combined	24	1,445	9	72	87	29	1,248	Ja 1,409	Fe 879	1,195	1,193	2			5,219,086
6	Fur goods	22	163	22	7	4	6	124	Oc 151	Ap [3] 101	144	58	86			341,361
7	Furniture	59	913	49	45	22	10	787			852	705	145	2		2,093,086
8	Wood, other than rattan and willow	41	602	36	27	15	6	518	No 607	Fe 366	562	440	120	2		1,223,963
9	All other	18	311	13	18	7	4	269	De 297	Fe 237	290	265	25			869,123
10	Furs, dressed	3	10	6				4	(4) 4	(4) 4	4	3	1			4,460
11	Gas and electric fixtures	6	80	1	11	18	5	45	De 63	My [3] 37	63	62	1			174,950
12	Gas, illuminating and heating	12	858		38	104	79	637	Oc 772	Fe 533	760	760				23,986,656
13	Glass, cutting, staining, and ornamenting	6	44	3	7	3	2	29	De 35	Ja [3] 23	37	35	2			67,721
14	Gloves and mittens, cloth, not including gloves made in textile mills	3	77	7		6	3	61	Ja 88	Mh 45	70	11	59			245,757
15	Gloves and mittens, leather	7	56	7	1	2		46	Oc [3] 50	Ja [3] 43	51	27	24			138,340
16	Hair work	3	15	2				13	(4) 13	(4) 13	14	1	13			8,994
17	Hand stamps	10	62	11	4	7	3	37	Jy 45	Ja 31	37	32	4	1		107,327
18	Ice, manufactured	42	260	24	30	11	14	181	Au 235	Ja 142	195	193	1	1		1,674,797
19	Instruments, professional and scientific	4	35	1	2	1	2	29	Ja 36	Mh [3] 27	29	25	4			119,745
20	Iron and steel forgings, not made in steel works or rolling mills	11	406	3	31	19	7	346	Ja 546	Fe 141	297	297				1,625,880
21	Iron and steel, welding	16	48	21	4	2	1	20	My [3] 21	Ja [3] 19	21	21				64,150
22	Jewelry	16	271	18	7	10	21	215	Je 253	Fe 160	215	157	58			320,258
23	Knit goods	8	136	3	10	14	4	105	De 164	Ap 64	166	31	135			268,611
24	Lamps	3	7	2			1	4	De 8	Ja [3] 2	9	7	2			19,333
25	Leather goods, not elsewhere specified	3	11	3	2			6	De [3] 7	Ja [3] 4	7	1	6			23,400
26	Lime	5	166		10	6		150	No 185	Jy 125	174	172	2			1,170,482
27	Liquors, malt	8	193		24	21	7	141	Oc 178	Ja [3] 112	151	150	1			6,383,092
28	Lithographing	4	108		10	10	6	82	No 97	My 66	92	64	24	2	2	342,520
29	Looking-glass and picture frames	8	38	9		2	4	23	De 28	Ja [3] 20	27	24	2	1		28,244
30	Lumber and timber products	1,130	57,115	1,055	1,368	963	336	53,393	Oc 61,910	Ja 38,318	63,223	62,541	669	12	1	159,411,073
31	Lumber, planing-mill products, not including planing mills connected with sawmills	86	2,244	60	115	81	42	1,946	No 2,349	Fe 1,445	2,332	2,229	103			6,377,101
32	Marble and stone work	27	217	20	21	21	5	150			156	156				747,062
33	Monuments and tombstones	24	135	18	14	18	2	83	My [3] 93	Ja 62	86	86				295,673
34	All other, except slate	3	82	2	7	3	3	67	No 77	Mh 56	70	70				451,389
35	Mattresses and spring beds, not elsewhere specified	12	255	3	11	12	3	226	No 278	Fe 183	256	216	40			657,755
36	Millinery and lace goods, not elsewhere specified	12	200	9	6	6	5	174			175	23	152			196,069
37	Trimmed hats and hat frames	4	60		4	2	2	52	Fe 86	No 17	51	7	44			49,721
38	All other	8	140	9	2	4	3	122	Se 126	Ja [3] 116	124	16	108			146,348
39	Mineral and soda waters	53	210	56	13	12	6	123	Jy 150	Ja [3] 99	126	121	5			871,428
40	Minerals and earths, ground or otherwise treated	3	7		1			6	Se 13	Ja [5] 0	12	12				92,524
41	Models and patterns, not including paper patterns	13	56	18	3	2		33	Au 41	Fe 17	38	37	1			73,305
42	Musical instruments and materials, not elsewhere specified	5	5	5												8,170
43	Oil, not elsewhere specified	4	53		7	3		43	Au 74	Ja 25	62	60	2			1,085,085
44	Optical goods	10	72	4	6	6	12	44	De 47	Fe [3] 39	47	45	2			101,901
45	Paints	6	53		9	9	6	29	Je [3] 31	Ja 26	32	29	3			373,633
46	Paper and wood pulp	6	1,762		46	67	39	1,610	De 1,801	Fe 1,442	1,777	1,618	159			12,049,294
47	Patent medicines and compounds	15	39	5	6	2	3	23			38	36	1		1	183,127
48	Patent and proprietary medicines	5	8	4	1			3	(4) 3	(4) 3	4	2	1		1	6,953
49	Patent and proprietary compounds, not elsewhere specified	10	31	1	5	2	3	20	Mh 33	Jy [3] 11	34	34				176,174
50	Paving materials	7	98	6	4	5		83	Oc [3] 152	Fe 16	136	136				177,592
51	Perfumery and cosmetics	8	11	4	2	1		4	De 6	Mh 2	6	3	3			14,614
52	Photo-engraving	8	65	2	8	7	4	44	My 52	Fe 37	46	44	2			140,932
53	Photographic materials	3	18	2	2	1	1	12	De 16	Ja 9	12	10	2			39,527
54	Pickles, preserves, and sauces	17	324	10	21	26	11	256			268	133	128	3	4	1,463,105
55	Preserves	6	175	4	10	10	5	146	Se 356	Fe 55	142	71	71			879,937
56	Pickles and sauces	11	149	6	11	16	6	110	Au 155	My [3] 92	126	62	57	3	4	583,168
57	Pottery, earthen and stone ware	3	14	2	1		1	10	No 18	Ap [3] 1	17	17				25,392
58	Printing and publishing, book and job	232	1,486	222	120	166	72	906			1,017	748	240	22	7	3,105,521
59	Job printing	215	1,357	209	113	87	72	876	De 1,012	Se 724	987	718	240	22	7	2,902,034
60	Book publishing and printing	7	90	4	5	78		3	Je [3] 4	Fe [3] 2	3	3				76,994
61	Linotype work and typesetting	10	39	9	2	1		27	Je [3] 30	Se 21	27	27				126,493
62	Printing and publishing, newspapers and periodicals	316	2,985	274	213	719	375	1,404			1,521	1,373	116	29	3	7,867,758
63	Printing and publishing	22	1,392	6	61	417	162	746	De 800	Fe 674	784	758	25	1		3,726,530
64	Printing, publishing, and job printing	225	1,289	226	100	171	150	642	De 703	Mh 597	715	597	88	27	3	3,855,718
65	Publishing without printing	69	304	42	52	131	63	16	De 20	Je 13	22	18	3	1		285,510
66	Rice, cleaning and polishing	5	6	1				5	(4) 5	(4) 5	5	5				23,456
67	Saddlery and harness	42	152	47	9	16	6	74	Mh 94	Se [3] 56	68	68				580,216
68	Sausage, not made in slaughtering and meat-packing establishments	5	16	5			2	9	De [3] 15	Ja [3] 7	16	16				46,331
69	Saws	4	31	3	1	3		24	No 29	Ja [3] 21	28	28				126,152

[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.	
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
1,308,809	516,801	5,881,174	18,390	166,312	560,405	7,685,308	410,784	20,801,412	12,705,320	13,838	379	237	188	300	12,734	60	1
346,236	92,764	998,278	600	44,740	39,586	1,156,006	56,646	4,049,795	2,837,143	3,876	50	87	111	300	3,328	60	2
185,064	56,131	923,592	308	12,832	120,777	1,179,849	123,399	3,139,433	1,836,185	1,507	8	.....	.....	.....	1,499	.....	3
490,862	202,478	1,965,715	10,880	97,750	119,965	3,626,561	101,521	7,726,288	3,998,206	4,474	66	150	72	.....	4,186	.....	4
286,647	165,428	1,993,589	6,602	10,990	271,077	1,722,892	129,218	5,885,896	4,033,786	3,981	255	.....	5	.....	3,721	.....	5
14,278	10,588	167,573	6,592	25,204	2,477	280,470	1,755	680,681	398,456	31	.....	.....	.....	.....	31	.....	6
129,180	42,339	898,863	475	19,708	59,535	1,016,069	36,780	2,776,615	1,723,766	2,077	890	.....	.....	40	1,147	62	7
76,077	27,297	583,347	.....	10,768	28,862	661,205	21,731	1,761,485	1,078,549	1,070	540	.....	.....	40	490	62	8
53,103	15,042	315,516	475	8,940	30,673	354,864	15,049	1,015,130	645,217	1,007	350	.....	.....	.....	657	.....	9
.....	.....	3,649	.....	644	63	2,515	411	14,989	12,063	8	.....	.....	.....	.....	8	.....	10
36,943	27,926	67,141	.....	8,797	1,506	174,922	3,068	393,360	215,370	83	.....	.....	.....	.....	83	.....	11
94,046	197,016	838,340	2,762	124	291,828	506,043	1,099,923	3,680,464	2,074,498	2,969	1,455	630	286	.....	598	349	12
15,326	4,449	41,790	.....	4,817	408	80,485	1,147	186,126	104,494	48	.....	.....	.....	.....	48	.....	13
.....	9,835	46,129	.....	3,202	1,261	203,196	1,173	277,423	73,054	35	.....	.....	.....	.....	35	.....	14
1,680	2,300	64,889	.....	3,990	1,282	130,359	1,009	243,778	112,410	12	.....	.....	.....	.....	12	.....	15
.....	.....	18,089	480	1,900	135	10,813	75	40,310	29,422	2	.....	.....	.....	.....	2	.....	16
6,980	12,180	51,377	950	7,483	1,662	55,828	1,382	172,523	115,313	63	.....	.....	.....	.....	63	.....	17
57,862	16,874	271,390	.....	9,031	37,270	70,496	109,342	819,665	639,827	4,318	724	.....	.....	45	3,549	90	18
3,860	3,074	37,523	888	2,246	373	48,612	573	116,361	67,176	34	.....	.....	.....	.....	34	.....	19
150,896	54,876	605,054	600	8,695	72,657	1,657,457	136,256	3,154,940	1,361,227	1,795	25	45	.....	.....	1,725	.....	20
12,900	1,575	34,284	14,920	7,746	694	35,693	9,538	171,112	125,881	48	.....	.....	.....	.....	48	.....	21
14,473	46,094	323,593	7,611	14,879	10,994	446,178	7,468	1,021,726	568,080	381	.....	.....	.....	.....	381	.....	22
26,039	26,861	71,375	100	12,410	5,409	157,340	2,280	400,902	241,282	33	.....	.....	.....	.....	33	.....	23
.....	936	8,298	.....	1,040	306	27,288	297	53,911	26,326	16	.....	.....	.....	.....	16	.....	24
4,800	.....	5,454	.....	1,526	190	26,135	122	41,996	15,739	4	.....	.....	.....	.....	4	.....	25
20,585	10,983	144,254	.....	.....	8,408	95,206	51,295	341,361	194,860	447	87	.....	60	.....	300	.....	26
85,339	40,335	221,962	.....	2,400	90,111	908,368	108,787	1,832,547	815,392	2,967	1,650	65	.....	.....	1,252	660	27
32,216	26,445	95,475	.....	3,926	12,744	185,164	4,444	470,724	281,116	153	.....	.....	.....	.....	153	.....	28
.....	2,756	25,431	.....	5,868	262	21,056	403	76,347	54,888	3	.....	.....	.....	.....	3	.....	29
5,063,467	1,967,092	80,482,668	1,693,738	250,038	5,604,991	83,873,101	1,433,670	220,512,359	135,205,588	420,518	354,075	45,563	3,580	1,084	16,216	53,524	30
331,498	151,551	2,442,734	2,500	49,183	239,629	5,976,182	84,145	10,931,701	4,871,374	11,787	4,110	2,112	39	.....	5,526	458	31
46,182	27,430	221,683	1,197	12,021	17,070	304,192	15,726	927,586	607,668	836	114	.....	24	4	694	.....	32
27,140	21,417	122,698	1,197	8,870	9,034	171,146	7,542	565,842	387,154	347	.....	.....	9	4	334	.....	33
19,042	6,013	98,985	.....	3,151	8,036	133,046	8,184	361,744	220,514	489	114	.....	15	.....	360	.....	34
24,445	20,340	277,418	225	13,140	29,815	721,171	9,936	1,365,252	634,145	726	.....	.....	.....	.....	726	.....	35
11,653	18,740	118,202	.....	11,340	2,883	239,439	1,908	467,747	226,400	48	2	.....	.....	.....	46	.....	36
7,400	5,225	41,223	.....	4,300	1,925	59,599	645	147,973	87,729	21	.....	.....	.....	.....	21	.....	37
4,253	13,515	76,979	.....	7,040	958	179,840	1,263	319,774	138,671	27	2	.....	.....	.....	25	.....	38
26,161	17,399	165,713	252	19,341	30,111	652,035	19,084	1,256,605	585,486	431	184	.....	10	1	236	.....	39
600	.....	8,320	.....	245	209	8,394	882	18,898	9,622	121	100	.....	21	.....	.....	.....	40
5,318	590	75,215	.....	3,570	996	23,670	2,279	144,415	118,466	93	.....	.....	.....	.....	93	.....	41
.....	.....	.....	.....	1,715	52	831	29	6,640	5,780	2	.....	.....	.....	.....	2	.....	42
21,073	5,429	62,035	.....	7,336	12,267	200,927	11,020	394,381	182,434	465	440	.....	25	.....	.....	.....	43
20,028	15,831	37,244	1,468	12,147	2,279	102,000	489	238,294	135,805	26	.....	.....	.....	.....	26	.....	44
38,400	18,187	37,420	.....	3,080	4,790	263,737	3,350	486,783	219,696	175	.....	.....	.....	.....	175	.....	45
232,490	208,786	2,173,628	.....	4,716	538,094	4,286,770	775,660	10,653,361	5,590,931	31,809	6,520	795	.....	1,800	22,694	686	46
5,575	6,016	32,864	.....	2,682	2,236	107,271	5,078	189,494	77,145	87	77	.....	.....	.....	10	.....	47
600	.....	2,810	.....	900	73	2,839	80	13,026	10,107	.....	.....	.....	.....	.....	.....	.....	48
4,975	6,016	30,054	.....	1,722	2,163	104,432	4,998	176,468	67,038	87	77	.....	.....	.....	10	.....	49
7,625	6,864	78,632	.....	2,211	1,812	36,708	17,823	209,217	154,686	812	664	75	3	.....	70	.....	50
2,595	700	3,525	.....	1,355	360	19,110	61	37,074	17,903	2	.....	.....	.....	.....	2	.....	51
29,847	15,595	90,630	948	7,125	1,656	37,693	2,044	287,592	247,855	46	.....	.....	.....	.....	46	.....	52
4,680	1,716	10,770	.....	2,466	371	14,220	730	52,303	37,353	5	.....	.....	.....	.....	5	.....	53
50,489	59,435	267,659	.....	8,747	50,165	1,240,958	14,659	2,041,378	785,761	262	3	.....	2	.....	257	.....	54
22,544	25,977	148,400	.....	882	38,430	722,969	8,447	1,084,428	353,012	103	.....	.....	.....	.....	103	.....	55
27,945	33,458	119,259	.....	7,865	11,735	517,989	6,212	956,950	432,749	159	3	.....	2	.....	154	.....	56
874	420	12,929	.....	550	35	5,286	4,389	28,074	18,399	47	.....	.....	2	.....	45	.....	57
310,047	252,014	1,192,789	120,771	134,006	64,861	1,475,340	35,325	4,710,048	3,199,383	1,041	.....	.....	2	.....	1,039	.....	58
298,547	191,846	1,140,670	88,622	128,070	63,555	1,462,674	32,613	4,476,308	2,981,021	1,023	.....	.....	2	.....	1,021	.....	59
6,340	59,908	4,245	32,149	2,132	277	8,617	255	122,511	113,639	5	.....	.....	.....	.....	5	.....	60
5,160	260	47,874	.....	3,804	1,029	4,049	2,457	111,229	104,723	13	.....	.....	.....	.....	13	.....	61
637,958	1,259,076	2,250,200	623,478	192,787	336,927	2,679,459	118,434	11,954,252	9,156,359	2,488	.....	.....	67	16	2,405	.....	62
285,822	739,675	1,333,269	10,901	91,504	233,402	1,746,668	41,168	6,334,357	4,546,521	1,282	.....	.....	.....	.....	1,282	.....	63
218,539	275,969	892,066	19,493	78,853	50,010	881,024	75,621	4,037,128	3,080,483	1,176	.....	.....	67	16	1,093	.....	64
133,597	243,432	24,865	593,084	22,430	53,515	51,767	1,645	1,582,767	1,529,355	30	.....	.....	.....	.....	30	.....	65
.....	.....	5,593	.....	2,020	547	300,218	795	323,639	22,626	34	.....	.....	.....	.....	34	.....	66
53,020	31,970	97,668	364	20,700	15,078	480,881	5,065	921,674	435,728	83	.....	.....	2	.....	81	.....	67
.....	390	11,990	.....	2,310	335	86,850	530	134,188	46,808	37	.....	.....	.....	.....	37	.....	68
2,575	2,060	37,901	.....	2,700	312	39,372	3,166	109,248	66,710	166	.....	.....	5	.....	161	.....	69

[1] Same number reported for one or more other months. [2] Same number reported throughout the year. [3] None reported for one or more other months.

TABLE 31.—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—Continued.															Dollars.
1	Shipbuilding, steel	9	30,896	.....	545	681	279	29,391	Ja 39,105	Fe 4,714	16,938	16,879	32	27	.....	103,019,540
2	Shipbuilding, wooden, including boat building	67	5,528	56	101	122	64	5,185	.....	.....	7,020	7,015	5	.....	.....	17,703,262
3	New vessels	37	5,094	35	74	112	58	4,815	Ja 8,992	De 1,300	6,677	6,672	5	.....	.....	16,588,035
4	Repair work only	15	312	6	18	8	5	275	Au 408	Fe 142	260	260	.....	.....	.....	807,074
5	All other	15	122	15	9	2	1	95	Ja 131	No 71	83	83	.....	.....	.....	308,153
6	Signs, electric and other	5	40	10	.....	1	.....	29	Se [3] 34	Fe 24	31	30	1	.....	.....	26,989
7	Slaughtering and meat packing	29	1,489	17	47	132	71	1,222	De 1,371	Ap 1,102	1,355	1,244	111	.....	.....	12,759,109
8	Soap	5	19	3	2	3	1	10	De 18	Mh 6	19	15	4	.....	.....	99,590
9	Springs, steel, automobile	3	24	2	2	.....	1	19	Au [3] 20	Ja 15	20	20	.....	.....	.....	53,548
10	Statuary and art goods	3	11	3	.....	.....	.....	8	No 11	Ja 4	11	11	.....	.....	.....	31,914
11	Steam packing	4	64	3	5	18	1	37	Je 47	Ja 14	41	41	.....	.....	.....	196,217
12	Stoves and hot-air furnaces	8	155	5	9	5	5	131	No 198	Fe 55	152	152	.....	.....	.....	275,417
13	Structural ironwork, not made in steel works or rolling mills	8	210	7	10	13	1	179	De 214	Mh 155	205	205	.....	.....	.....	709,989
14	Tinware, not elsewhere specified	6	693	1	20	36	26	610	Je 754	De 402	401	274	126	1	.....	5,053,302
15	Tobacco, cigars and cigarettes	56	209	58	4	3	.....	144	De 160	Mh 130	162	119	42	1	.....	197,237
16	Tools, not elsewhere specified	7	74	2	6	6	4	56	Je 71	Fe 25	78	76	2	.....	.....	209,721
17	Toys and games	6	38	7	3	1	1	26	No [3] 56	Ja [3] 9	59	27	32	.....	.....	54,601
18	Trunks and valises	13	108	15	6	10	4	73	No 82	Fe 67	83	63	17	3	.....	240,982
19	Vinegar and cider	19	140	15	18	6	3	98	.....	.....	104	102	2	.....	.....	1,939,161
20	Vinegar	4	16	4	3	1	.....	8	Oc [3] 19	Ja [3] 4	14	14	.....	.....	.....	94,906
21	Cider	15	124	11	15	5	3	90	Oc 191	Fe 51	90	88	2	.....	.....	1,844,255
22	Window and door screens	4	26	5	3	.....	1	17	Je [3] 24	Ja 10	12	12	.....	.....	.....	38,220
23	Window shades and fixtures	3	12	3	.....	1	.....	8	Au [3] 9	Ja [3] 7	9	6	3	.....	.....	46,239
24	Wooden goods, not elsewhere specified	8	301	4	11	4	2	280	Ja 332	Je 57	313	289	24	.....	.....	1,002,860
25	All other industries *	146	5,232	59	326	370	210	4,267	.....	.....	.....	.....	.....	.....	.....	49,282,912

*All other industries embrace—

Aeroplanes, seaplanes, and airships, and parts ... 1
Automobiles ... 4
Babbitt and white metal ... 3
Bags, other than paper, not including bags made in textile mills ... 1
Baking powders and yeast ... 1
Baskets, and rattan and willow ware ... 1
Blacking, stains, and dressings ... 1
Bluing ... 1
Boot and shoe findings ... 1
Boxes, cigar ... 1
Brushes ... 3
Carriage and wagon materials ... 1
Carriages and sleds, children's ... 1
Cars, steam-railroad, not including operations of railroad companies ... 2
Charcoal, not including production in lumber and wood distillation industries ... 2
China decorating, decalcomania work ... 2
Coke, not including gas-house coke ... 3
Cooperage, hogsheads and barrels ... 3
Cordage and twine ... 1
Cordials and flavoring sirups ... 2
Cork, cutting ... 1
Corsets ... 1
Dairymen's and poultrymen's supplies 1
Dental goods ... 2
Emery and other abrasive wheels ... 1
Engraving and diesinking ... 1
Explosives ... 2
Feathers and plumes ... 1
Ferroalloys ... 1
Fertilizers ... 3
Fireworks ... 1
Flags and banners ... 2
Flavoring extracts ... 6
Fuel, briquetted ... 1
Furnishing goods, men's ... 2
Galvanizing ... 1
Glass ... 1
Glue, other than fish ... 1
Gold and silver, reducing and refining, not from the ore ... 1
Grease and tallow, not including lubricating greases ... 2
Hardware ... 3
Hats and caps, other than felt, straw, and wool ... 2
Hats, fur-felt ... 1
Hats, wool-felt ... 1
House-furnishing goods, comforts and quilts ... 1
Iron and steel, blast furnaces ... 1

	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.															
1	SEATTLE—All industries	1,229	47,074	894	1,858	2,362	1,117	40,843	Ja 49,001	Fe 15,704	32,507	28,930	3,514	43	20	157,915,135
2	Artificial stone products	5	24	2	4	.....	.....	18	Se 26	Ja 6	21	21	.....	.....	.....	115,525
3	Automobile bodies and parts	21	204	21	13	4	7	159	Je 174	Fe 144	148	144	4	.....	.....	272,000
4	Automobile repairing	85	551	83	54	18	27	369	Jy [3] 400	Fe 327	388	381	7	.....	.....	648,920
5	Awnings, tents, and sails	7	98	4	7	5	5	77	Au 86	Fe [2] 73	74	51	23	.....	.....	393,439
6	Bookbinding and blank-book making	10	36	10	1	.....	.....	25	Ap [2] 28	Se 13	29	17	11	1	.....	101,124
7	Boxes, paper and other, not elsewhere specified	7	216	2	17	3	3	191	De 260	Mh 155	257	39	216	.....	2	303,921
8	Boxes, wooden packing, except cigar boxes	3	179	.....	4	4	1	170	No 208	Mh [2] 143	177	160	9	5	3	409,909
9	Brass, bronze, and copper products	12	172	8	18	8	5	133	Au 163	Fe 30	138	138	.....	.....	.....	457,854
10	Bread and other bakery products	117	1,055	128	31	69	39	788	De 869	Fe 711	883	558	324	1	.....	1,767,053
11	Brick and terra-cotta products	7	172	4	12	2	3	151	Oc 185	Fe 107	196	196	.....	.....	.....	806,969
12	Butter	10	129	3	23	17	13	73	Je 87	Fe 62	65	54	11	.....	.....	1,065,618
13	Canning and preserving, fish	6	67	2	4	3	5	53	Au 91	Ja [2] 29	88	73	15	.....	.....	633,946
14	Carpets, rag	3	12	3	.....	.....	.....	9	Au [3] 10	Fe [3] 8	10	10	.....	.....	.....	4,545
15	Carriages and wagons, repair work only	3	8	3	.....	.....	.....	5	(4) 5	(4) 5	5	5	.....	.....	.....	20,850
16	Cars and general shop construction and repairs by electric-railroad companies	3	375	.....	6	7	.....	362	No 460	Ja 180	623	623	.....	.....	.....	683,402
17	Cars and general shop construction and repairs by steam-railroad companies	3	330	.....	15	5	10	300	No 330	Au 268	320	309	11	.....	.....	678,369
18	Clothing, men's	4	369	1	8	43	15	302	De 328	Mh 290	328	22	306	.....	.....	1,244,122
19	Clothing, women's	16	231	12	12	9	6	192	.....	.....	175	35	136	2	2	272,411
20	Suits, skirts, and cloaks	7	71	5	3	2	3	58	Mh 72	No 41	58	31	26	1	.....	141,012
21	All other	9	160	7	9	7	3	134	Jy 192	Ja 67	117	4	110	1	2	131,399
22	Coffee, roasting and grinding	14	286	7	23	75	20	161	Jy 185	My 149	170	93	77	.....	.....	1,327,702
23	Confectionery and ice cream	52	1,006	36	65	119	41	745	.....	.....	936	237	694	2	3	2,119,492
24	Confectionery	44	915	32	53	114	37	679	De 862	My 569	872	180	687	2	3	1,933,447
25	Ice cream	8	91	4	12	5	4	66	Au 76	De 57	64	57	7	.....	.....	186,045
26	Copper, tin, and sheet-iron work	47	308	45	22	13	6	222	Mh 259	Fe 106	246	243	1	2	.....	650,758
27	Cutlery and edge tools	3	10	2	1	.....	.....	7	No [2] 8	Ja [3] 6	8	7	1	.....	.....	37,775
28	Electrical machinery, apparatus, and supplies	9	250	2	30	19	23	176	Ja 264	Fe 122	207	163	44	.....	.....	1,846,256

[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.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	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.[2]		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
2,803,430	1,547,386	48,728,096	223,520	462,869	7,634,062	62,417,992	931,068	140,980,461	77,631,401	36,692	2,215	.....	.....	.....	34,477	.....	1
756,246	301,529	7,325,227	1,479,638	69,835	345,879	10,558,057	139,100	25,539,326	14,842,169	14,004	1,634	.....	131	.....	12,239	300	2
646,730	266,101	6,782,883	1,478,200	53,696	323,826	10,157,584	123,606	24,198,303	13,917,203	13,027	1,184	.....	56	.....	11,787	300	3
45,728	21,028	408,438	.....	5,083	18,935	249,071	13,093	902,654	640,490	686	400	.....	57	.....	229	.....	4
63,788	14,400	133,906	1,438	11,056	3,118	151,402	2,401	438,279	284,476	291	50	.....	18	.....	223	.....	5
.....	1,040	51,811	24	4,786	415	28,492	358	112,454	83,604	2	.....	.....	.....	.....	2	.....	6
195,436	229,988	1,525,762	2,397	7,306	113,354	28,972,511	151,941	34,388,584	5,264,132	3,821	813	.....	17	.....	2,991	.....	7
3,680	4,132	12,047	.....	360	818	46,215	1,894	98,247	50,138	125	100	.....	.....	.....	25	.....	8
7,800	1,300	24,669	.....	2,140	1,674	31,384	2,737	95,565	61,444	62	.....	.....	.....	.....	62	.....	9
.....	.....	11,134	.....	322	386	6,092	383	26,078	19,603	10	.....	.....	.....	.....	10	.....	10
20,200	17,634	92,555	.....	5,552	18,821	154,934	1,504	504,435	347,997	35	.....	.....	2	.....	33	.....	11
36,315	10,028	188,052	1,200	3,770	4,380	164,713	6,007	529,759	359,039	176	.....	.....	.....	.....	176	.....	12
48,532	18,729	252,555	.....	3,502	18,463	436,530	12,161	880,811	432,120	390	.....	.....	.....	.....	390	.....	13
76,485	83,778	644,471	.....	4,203	161,574	5,467,337	34,868	6,684,165	1,181,960	850	.....	.....	.....	.....	850	.....	14
8,618	14,000	155,038	20	9,021	54,475	186,972	1,775	539,688	350,941	4	.....	.....	.....	.....	4	.....	15
17,621	15,769	85,748	.....	5,166	1,739	54,646	2,946	216,804	159,212	111	.....	.....	6	.....	105	.....	16
3,600	1,440	22,241	.....	1,963	412	28,379	1,349	71,773	42,045	62	.....	.....	.....	.....	62	.....	17
11,303	21,298	85,712	.....	11,850	1,623	170,080	772	367,163	196,311	23	.....	.....	.....	.....	23	.....	18
37,280	17,467	135,270	1,336	4,074	56,116	401,759	23,633	902,492	477,100	1,147	210	.....	13	.....	924	2	19
8,400	3,725	11,322	.....	364	1,371	33,924	760	78,638	43,954	60	15	.....	.....	.....	45	.....	20
28,880	13,742	123,948	1,336	3,710	54,745	367,835	22,873	823,854	433,146	1,087	195	.....	13	.....	879	2	21
6,820	897	16,299	.....	770	272	23,810	756	56,053	31,487	42	.....	.....	.....	.....	42	.....	22
.....	240	13,369	.....	1,826	115	88,651	78	109,770	21,041	4	.....	.....	.....	.....	4	.....	23
44,241	8,977	381,557	300	120	51,403	288,929	1,569	943,537	653,639	1,381	1,126	200	.....	.....	55	185	24
1,286,935	941,289	6,123,024	11,036	108,548	963,824	50,374,345	2,071,464	66,797,442	14,351,633	42,970	7,134	250	118	795	34,673	647	25

Iron and steel, steel works and rolling mills.... 3
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills. 1
Iron and steel, wrought pipe.... 1
Ivory, shell, and bone work, not including combs and hairpins.... 2
Lapidary work.... 1
Lead, bar, pipe, and sheet.... 1
Leather, tanned, curried, and finished. 2
Liquors, vinous.... 1
Lubricating greases.... 1
Machine tools.... 1
Matches.... 1
Mirrors, framed and unframed, not elsewhere specified.... 4
Motorcycles, bicycles, and parts.... 1
Mucilage, paste, and other adhesives, not elsewhere specified.... 2
Musical instruments, piano materials. 1
Nets and seines.... 1
Oil, linseed.... 1
Plumbers' supplies, not elsewhere specified.... 1
Printing and publishing, music.... 2
Pumps, not including power pumps.. 2
Pumps, steam.... 1
Refrigerators.... 1
Rubber tires, tubes, and rubber goods, not elsewhere specified.... 4
Screws, machine.... 1
Shirts.... 3
Show cases.... 1
Smelting and refining, copper.... 1
Smelting, lead.... 1
Sporting and athletic goods.... 2
Stamped ware, not elsewhere specified. 1
Stationery goods, not elsewhere specified.... 1
Steam fittings and steam and hot-water heating apparatus.... 1
Stencils and brands.... 1
Stereotyping and electrotyping.... 1
Stoves, gas and oil.... 1
Sugar, beet.... 1
Surgical appliances.... 1
Typewriter supplies, ribbon.... 1
Upholstering materials, excelsior.... 1
Wall plaster and composition flooring. 2
Wirework, including wire rope and cable, not elsewhere specified.... 3
Wood preserving.... 3
Wood, turned and carved.... 3
Wool pulling.... 1
Woolen goods.... 3

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

7,581,242	5,080,157	63,394,584	3,015,328	1,197,859	10,724,763	146,649,664	3,000,711	274,431,239	124,780,864	90,073	15,138	3,875	420	300	70,340	3,190	1
5,800	.....	24,977	.....	1,620	873	45,615	578	96,567	50,374	36	.....	.....	.....	.....	36	.....	2
73,642	7,637	240,646	501,739	18,373	7,808	236,451	7,984	642,721	398,286	170	.....	.....	.....	.....	170	.....	3
92,807	45,896	548,870	26,318	76,437	10,610	632,874	14,098	1,687,366	1,040,394	364	.....	.....	.....	.....	364	.....	4
26,650	11,178	123,290	1,614	12,483	30,652	570,906	787	842,303	270,615	44	.....	.....	.....	.....	44	.....	5
1,300	.....	31,266	1,400	4,035	1,443	22,656	867	97,228	73,705	15	.....	.....	.....	.....	15	.....	6
57,393	7,363	148,714	.....	11,892	5,184	202,619	2,855	541,730	336,256	106	.....	.....	.....	.....	106	.....	7
27,263	7,706	197,737	.....	6,900	8,328	456,794	4,500	761,392	300,098	915	465	.....	.....	.....	450	.....	8
79,674	10,613	247,577	20,608	9,827	8,939	817,567	16,603	1,380,955	546,785	245	.....	.....	.....	.....	245	.....	9
151,157	156,311	1,024,067	11,957	116,435	84,205	4,179,988	96,233	6,817,522	2,541,301	690	.....	.....	.....	.....	690	.....	10
21,201	5,919	219,743	.....	6,000	8,505	34,463	51,830	422,566	336,273	900	350	.....	.....	.....	550	50	11
56,865	39,870	108,010	.....	12,128	22,296	2,053,970	12,957	2,386,018	319,091	342	.....	.....	.....	.....	342	.....	12
10,170	7,191	62,931	300	5,677	6,619	562,195	14,038	704,677	128,444	84	.....	.....	.....	.....	84	.....	13
.....	.....	13,182	.....	750	205	5,775	708	24,970	18,487	28	10	.....	.....	.....	18	.....	14
.....	.....	6,665	.....	1,752	203	8,820	1,182	23,511	13,509	22	.....	.....	.....	.....	22	.....	15
11,675	5,045	546,275	.....	.....	2,350	289,908	18,000	873,253	565,345	960	.....	.....	.....	.....	960	.....	16
42,687	17,899	394,657	.....	.....	9,647	235,254	42,153	742,297	464,890	376	.....	.....	.....	.....	376	.....	17
36,506	67,301	254,942	.....	11,882	109,140	367,960	2,464	1,381,596	1,011,172	82	.....	.....	.....	.....	82	.....	18
32,695	15,401	185,892	6,088	14,121	11,243	459,280	1,540	836,707	375,887	52	.....	.....	.....	.....	52	.....	19
10,983	7,394	90,731	5,588	6,646	5,836	222,254	502	381,308	158,552	9	.....	.....	.....	.....	9	.....	20
21,712	8,007	95,161	500	7,475	1,547	237,026	1,038	455,399	217,335	43	.....	.....	.....	.....	43	.....	21
84,615	202,730	172,783	300,294	28,691	19,216	2,410,339	9,187	3,297,246	877,720	242	.....	.....	.....	.....	242	.....	22
203,802	316,788	730,843	15,743	63,195	141,778	2,737,928	37,231	5,297,504	2,482,345	564	.....	.....	.....	.....	564	.....	23
155,152	302,658	618,150	15,743	58,405	136,026	2,210,099	25,923	4,301,444	2,065,422	332	.....	.....	.....	.....	332	.....	24
48,650	14,130	112,693	.....	4,790	5,752	527,829	11,308	956,060	416,923	232	.....	.....	.....	.....	232	.....	25
86,065	28,657	357,477	200	22,954	20,898	648,594	4,464	1,392,980	739,922	174	.....	.....	.....	.....	174	.....	26
1,200	.....	16,166	.....	1,920	272	12,032	800	37,300	23,568	28	.....	.....	.....	.....	28	.....	27
70,534	39,083	184,934	.....	8,068	26,650	618,346	5,189	1,024,794	401,259	613	.....	.....	.....	.....	613	.....	28

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

TABLE 31.—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.															
	SEATTLE—Continued.															*Dollars.*
1	Engines, steam, gas, and water	8	471	3	39	23	8	398	Jy 571	Fe 30	455	455				2,164,330
2	Flour-mill and gristmill products	11	790	2	43	135	51	559	No 624	Je 525	576	532	44			10,390,517
3	Food preparations, not elsewhere specified	17	97	11	9	12	5	60			65	37	27	1		344,971
4	Macaroni, vermicelli, and noodles	6	33	3	3	2	1	24	Jy [3] 25	Ja [3] 23	24	18	6			158,306
5	All other	11	64	8	6	10	4	36	Je 44	De 26	41	19	21	1		186,665
6	Foundry and machine-shop products	93	2,777	55	174	172	51	2,325			2,457	2,452	5			10,105,220
7	Boiler shops	7	520	5	22	28	6	459	Ja 663	Fe 32	508	507	1			1,953,574
8	Foundries	14	409	11	34	12	5	347	Ja 449	Fe 52	391	390	1			642,605
9	Machine shops	66	1,152	37	97	79	27	912	Ja 1,101	Fe 546	939	938	1			4,680,060
10	Machine shop and foundry combined	6	696	2	21	53	13	607	Ja 730	Fe 281	619	617	2			2,819,981
11	Fur goods	13	104	13	4	4	6	77	Oc 88	Mh 67	81	31	50			150,976
12	Furniture	27	270	22	21	11	2	214			253	247	4	2		554,045
13	Wood, other than rattan and willow	15	133	15	12	7		99	Au [3] 124	Ja [3] 67	120	114	4	2		347,048
14	All other	12	137	7	9	4	2	115	De 130	Fe 97	133	133				206,997
15	Glass, cutting, staining, and ornamenting	6	44	3	7	3	2	29	De 35	Ja [3] 23	37	35	2			67,721
16	Gloves and mittens, leather	4	33	4	1	1		27	No [3] 32	Ja 23	32	19	13			66,591
17	Ice, manufactured	6	85		10	2	2	71	Jy 89	Ap 58	79	79				549,882
18	Iron and steel forgings, not made in steel works or rolling mills	8	355	2	24	18	6	305	Ja 487	Fe 97	263	263				1,436,857
19	Iron and steel, welding	6	24	8	4	2	1	9	(4) 9	(4) 9	9	9				47,906
20	Jewelry	11	250	10	7	10	20	203	Je 240	Fe 146	199	142	57			308,125
21	Knit goods	5	86	2	8	6	3	67	De 115	Ap 33	115	20	95			174,533
22	Lamps	3	7	2			1	4	De 8	Ja [2] 2	9	7	2			19,333
23	Leather goods, not elsewhere specified	3	11	3	2			6	De [3] 7	Ja [3] 4	7	1	6			23,400
24	Lumber and timber products	28	2,375	6	77	51	23	2,218	Se 2,569	Fe 1,577	2,399	2,394	5			8,004,853
25	Lumber, planing-mill products, not including planing mills connected with sawmills	21	353	11	25	26	10	281	Oc 336	Fe 223	301	298	3			1,200,402
26	Marble and stone work, monuments and tombstones	5	40	4	2	2	2	30	Se 35	Ap 23	32	32				60,632
27	Mattresses and spring beds, not elsewhere specified	5	129	2	7	9	3	108	No 132	Mh 93	130	105	25			432,664
28	Mineral and carbonated waters	10	48	13	1	2	2	30	Jy [3] 39	Ja [3] 23	28	28				154,236
29	Models and patterns, not including paper patterns	7	39	11	2	2		24	Au 32	Fe 10	26	26				53,005
30	Optical goods	7	57	3	4	6	9	35	De 38	Fe 29	38	36	2			77,639
31	Patent medicines and compounds	6	11	4	2		1	4	Se [3] 5	No [2] 3	4	4				17,878
32	Perfumery and cosmetics	5	8	2	2	1		3	Jy [3] 4	Ja [3] 2	5	2	3			9,594
33	Pickles, preserves, and sauces	8	121	4	11	15	6	85	Au [3] 110	Fe 56	90	38	52			526,169
34	Printing and publishing, book and job	110	768	97	77	79	36	479			545	409	120	11	5	1,474,217
35	Job printing	101	695	92	72	36	36	459	De 549	Se 295	523	388	119	11	5	1,326,028
36	Book publishing and printing	4	47	2	3	42										53,135
37	Linotype work and typesetting	5	26	3	2	1		20	Ja [3] 22	Se 13	21	20	1			95,054
38	Printing and publishing, newspapers and periodicals	67	1,103	44	75	351	150	483			522	498	18	6		3,341,298
39	Printing and publishing	8	859	3	31	298	105	422	De 474	Fe 355	456	443	12	1		3,018,959
40	Printing, publishing, and job printing	14	116	14	14	20	10	58	Mh [3] 61	Se 54	63	54	5	4		136,756
41	Publishing without printing	45	128	27	30	33	35	3	(4) 3	(4) 3	3	1	1	1		185,583
42	Rice, cleaning and polishing	5	6	1				5	(4) 5	(4) 5	5	5				23,456
43	Shipbuilding, wooden, including boat building	28	2,553	14	45	38	26	2,430			2,795	2,795				8,060,934
44	New vessels	11	2,333	5	29	32	21	2,246	Ja 3,511	De 814	2,603	2,603				7,504,988
45	Repair work only	8	112	4	7	4	4	93	Ap [3] 109	Jy 70	113	113				270,128
46	Small boats and masts, spars, oars, and rigging	9	108	5	9	2	1	91	Ja 129	No 71	79	79				285,818
47	Slaughtering and meat packing	4	612	2	21	53	33	503	Ja 601	Jy 466	545	505	40			6,995,433
48	Tobacco, cigars	8	72	7	2	2		61	De 75	Mh 50	74	52	21	1		50,313
49	Toys and games	3	32	5	3		1	23	No [3] 53	Ja [2] 8	54	24	30			40,911
50	Trunks and valises	10	103	13	6	10	4	70	No 80	Fe [3] 63	80	60	17	3		234,969
51	Window shades and fixtures	3	12	3		1		8	Au [3] 9	Ja [3] 7	9	6	3			46,239
52	All other industries *	221	27,140	130	773	892	424	24,921			14,696	13,705	980	6	5	84,844,926

* All other industries embrace—

Aeroplanes, seaplanes, and airships, and parts ... 1
Artificial limbs ... 3
Automobiles ... 3
Babbitt and white metal ... 2
Bags, other than paper, not including bags made in textile mills ... 1
Baskets, and rattan and willow ware ... 1
Belting, leather ... 1
Blacking, stains, and dressings ... 1
Bluing ... 1
Boot and shoe findings ... 1
Boots and shoes ... 7
Brooms, from broom corn ... 2
Brushes ... 1
Buttons ... 1
Canning and preserving, fruits ... 1
Cars, steam-railroad, not including operations of railroad companies ... 1
Chemicals ... 6
China decorating, decalcomania work ... 2
Cleansing preparations ... 2
Coffins, burial cases, and undertakers' goods ... 2
Cooperage, hogsheads and barrels ... 1
Cordage and twine ... 1
Cordials and flavoring sirups ... 1
Cork, cutting ... 1
Corsets ... 1
Dental goods ... 1
Druggists' preparations ... 2
Electroplating ... 4
Engraving, steel and copper plate, including plate printing ... 2
Fancy articles, not elsewhere specified ... 2
Feathers and plumes ... 1
Fireworks ... 1
Flags and banners ... 1
Flavoring extracts ... 3
Furnishing goods, men's ... 2
Furs, dressed ... 1
Galvanizing ... 1
Gas and electric fixtures ... 3
Gas, illuminating and heating ... 1
Gloves and mittens, cloth, not including gloves made in textile mills ... 1
Glue, other than fish ... 1
Gold and silver, reducing and refining, not from the ore ... 1
Grease and tallow, not including lubricating greases ... 1
Hair work ... 1
Hand stamps ... 4
Hardware, builders' and vehicle hardware ... 2
Hats and caps, other than felt, straw, and wool ... 2
Hats, fur-felt ... 1
Hats, wool-felt ... 1
House-furnishing goods, comforts and quilts ... 1
Instruments, professional and scientific ... 3
Iron and steel, steel works and rolling mills ... 2
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills ... 1
Iron and steel, wrought pipe ... 1
Ivory, shell, and bone work, not including combs and hairpins ... 2
Lapidary work ... 1

[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. Salaries and wages. Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent and taxes. Rent of factory.	Taxes, Federal, state, county, and local.	For materials. Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufacture.	Power. Primary horsepower. Total.	Owned. 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.								
139,952	42,826	586,318	5,000	6,638	36,953	734,801	24,175	1,824,664	1,065,688	1,301	.....	.....	.....	.....	1,301	.....	1
152,299	273,612	709,685	.....	2,293	252,808	25,824,389	82,902	29,128,890	3,221,599	4,926	.....	.....	.....	.....	4,926	.....	2
22,375	29,292	55,521	.....	8,748	3,471	466,975	8,794	755,555	270,786	214	.....	.....	.....	.....	214	.....	3
7,800	3,360	26,025	.....	2,610	2,241	148,963	4,441	219,998	69,594	131	.....	.....	.....	.....	131	.....	4
14,575	25,932	29,496	.....	6,138	1,230	318,012	4,353	535,557	213,192	83	.....	.....	.....	.....	83	.....	5
993,314	382,553	3,883,453	9,834	125,481	273,068	5,400,757	239,431	14,153,684	8,513,496	9,283	.....	150	115	300	8,718	60	6
307,536	74,465	780,210	.....	36,760	30,138	876,345	47,565	3,350,957	2,436,047	3,054	.....	.....	105	300	2,649	60	7
122,157	29,073	558,550	308	9,326	20,289	407,739	45,822	1,476,987	963,426	542	.....	.....	.....	.....	542	.....	8
422,166	176,113	1,511,539	3,995	70,003	105,862	3,048,125	66,771	6,223,191	3,108,205	3,677	.....	150	10	.....	3,517	.....	9
111,455	102,902	1,033,154	5,621	9,392	116,779	1,008,548	79,273	3,093,549	2,005,728	2,010	.....	.....	.....	.....	2,010	.....	10
9,350	10,588	98,769	3,670	15,214	1,228	154,362	656	372,294	217,276	15	.....	.....	.....	.....	15	.....	11
53,032	16,421	297,740	475	11,659	19,285	369,057	11,442	976,880	596,381	593	150	.....	.....	.....	443	50	12
30,029	9,475	136,141	.....	4,359	17,021	237,995	7,311	523,480	278,174	347	150	.....	.....	.....	197	50	13
23,003	6,946	161,599	475	7,300	2,264	131,052	4,131	453,400	318,207	246	.....	.....	.....	.....	246	.....	14
15,326	4,449	41,790	.....	4,817	408	80,485	1,147	186,126	104,494	48	.....	.....	.....	.....	48	.....	15
1,680	500	38,296	.....	3,660	318	64,321	517	130,859	66,021	7	.....	.....	.....	.....	7	.....	16
20,182	4,825	98,689	.....	1,725	16,600	12,744	47,039	252,718	192,935	1,617	.....	.....	.....	.....	1,617	.....	17
136,123	52,438	538,769	600	8,515	70,418	1,562,083	125,101	2,934,249	1,247,065	1,572	10	20	.....	.....	1,542	.....	18
12,900	1,575	17,981	14,300	4,346	495	21,230	6,822	108,146	80,094	24	.....	.....	.....	.....	24	.....	19
14,473	45,275	307,253	5,111	13,225	10,869	436,582	6,960	972,783	529,241	370	.....	.....	.....	.....	370	.....	20
20,567	15,436	54,529	100	12,110	3,142	134,284	1,730	296,853	160,839	15	.....	.....	.....	.....	15	.....	21
.....	936	8,298	.....	1,040	306	27,288	297	53,911	26,326	16	.....	.....	.....	.....	16	.....	22
4,800	.....	5,454	.....	1,526	190	26,135	122	41,996	15,739	4	.....	.....	.....	.....	4	.....	23
383,552	135,815	3,595,755	56,997	24,204	325,369	6,653,601	48,213	12,737,497	6,035,683	15,167	8,494	3,300	.....	.....	3,373	1,692	24
63,006	43,726	465,731	.....	17,116	76,491	1,103,310	17,627	2,083,733	962,795	1,547	537	.....	.....	.....	1,010	350	25
2,700	5,226	43,186	.....	5,807	1,321	25,470	1,731	155,948	128,747	123	.....	.....	.....	.....	123	.....	26
14,600	16,420	138,028	.....	3,000	24,324	367,498	4,367	794,401	422,536	230	.....	.....	.....	.....	230	.....	27
3,600	3,656	45,215	.....	6,677	5,213	170,516	3,376	341,130	167,247	49	10	.....	.....	.....	39	.....	28
3,778	590	57,228	.....	3,387	430	18,231	1,585	106,860	87,044	64	.....	.....	.....	.....	64	.....	29
17,814	13,420	27,237	1,468	10,725	1,556	74,793	539	186,175	110,843	18	.....	.....	.....	.....	18	.....	30
1,475	2,387	3,588	.....	1,520	63	14,720	228	28,254	13,297	.....	.....	.....	.....	.....	.....	.....	31
2,595	700	2,947	.....	780	346	10,653	10	24,081	13,418	2	.....	.....	.....	.....	2	.....	32
26,341	43,243	87,441	.....	4,775	30,979	733,330	6,837	1,111,643	371,476	127	.....	.....	.....	.....	127	.....	33
203,247	140,185	662,107	87,087	77,302	25,582	763,338	15,865	2,552,383	1,773,180	554	.....	.....	.....	.....	554	.....	34
193,047	87,465	622,368	73,023	73,260	24,848	754,190	14,795	2,303,892	1,624,907	543	.....	.....	.....	.....	543	.....	35
3,040	52,460	.....	14,064	1,648	192	6,826	26	77,995	71,143	4	.....	.....	.....	.....	4	.....	36
5,160	260	39,739	.....	2,394	542	2,322	1,044	80,496	77,130	7	.....	.....	.....	.....	7	.....	37
285,403	670,066	1,006,853	235,119	91,533	223,091	1,391,414	29,579	5,646,748	4,225,755	966	.....	.....	.....	.....	966	.....	38
182,190	544,025	929,798	8,459	75,495	220,542	1,312,206	27,585	4,728,251	3,388,460	901	.....	.....	.....	.....	901	.....	39
20,963	26,992	75,195	11,338	5,329	658	66,120	1,994	305,427	237,313	65	.....	.....	.....	.....	65	.....	40
82,250	99,049	1,860	215,322	10,709	1,891	13,088	.....	613,070	599,982	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	5,593	.....	2,020	547	300,218	795	323,639	22,626	34	.....	.....	.....	.....	34	.....	42
267,898	125,642	2,985,463	1,475,818	50,403	159,189	4,157,003	54,323	11,093,450	6,882,124	5,997	470	.....	25	.....	5,502	.....	43
191,405	102,970	2,687,617	1,474,380	35,881	152,087	3,889,921	49,766	10,325,590	6,385,903	5,533	420	.....	.....	.....	5,113	.....	44
12,705	8,272	167,880	.....	3,886	4,095	121,842	2,486	349,326	224,998	210	.....	.....	25	.....	185	.....	45
63,788	14,400	129,966	1,438	10,636	3,006	145,240	2,071	418,534	271,223	254	50	.....	.....	.....	204	.....	46
98,088	82,824	675,750	.....	2,288	42,906	15,478,008	51,399	18,031,098	2,501,691	1,438	400	.....	.....	.....	1,038	.....	47
5,618	12,000	72,788	20	3,160	22,627	71,270	272	258,044	186,502	1	.....	.....	.....	.....	1	.....	48
3,600	1,040	20,320	.....	1,873	241	25,678	1,139	64,007	37,190	42	.....	.....	.....	.....	42	.....	49
11,303	21,298	81,572	.....	10,950	1,491	165,170	760	349,724	183,794	22	.....	.....	.....	.....	22	.....	50
.....	240	13,369	.....	1,826	115	88,651	78	109,770	21,041	4	.....	.....	.....	.....	4	.....	51
3,446,460	1,888,365	40,820,224	233,468	222,376	8,556,257	62,110,056	1,858,695	134,969,829	71,001,168	36,631	4,242	405	280	.....	31,704	988	52

Lead, bar, pipe, and sheet..... 1
Leather, tanned, curried, and finished. 1
Liquors, malt..... 2
Lithographing..... 2
Looking-glass and picture frames..... 6
Lubricating greases..... 1
Machine tools..... 1
Millinery and lace goods, not elsewhere specified..... 10
Mirrors, framed and unframed, not elsewhere specified..... 2
Motorcycles, bicycles, and parts..... 1
Mucilage, paste, and other adhesives, not elsewhere specified..... 2
Musical instruments and materials, not elsewhere specified..... 3
Nets and seines..... 1
Paints..... 4
Photo-engraving..... 4
Photographic materials..... 2
Plumbers' supplies, not elsewhere specified..... 1
Pottery, earthen and stone ware..... 1
Printing and publishing, music..... 2
Pumps, not including power pumps.. 1
Pumps, steam..... 1
Rubber tires, tubes, and rubber goods, not elsewhere specified..... 1
Saddlery and harness..... 4
Sausage, not made in slaughtering and meat-packing establishments..... 4
Saws..... 3
Screws, machine..... 1
Shipbuilding, steel..... 6
Shirts..... 2
Show cases..... 1
Signs..... 4
Soap..... 3
Springs, steel, automobile..... 2
Stationery goods, not elsewhere specified..... 1
Statuary and art goods..... 2
Steam fittings and steam and hot-water heating apparatus..... 1
Steam packing..... 3
Stereotyping and electrotyping..... 1
Stoves and hot-air furnaces..... 3
Stoves, gas and oil..... 1
Structural ironwork, not made in steel works or rolling mills..... 5
Oil, linseed..... 1
Surgical appliances..... 3
Tinware, not elsewhere specified..... 5
Tools, not elsewhere specified..... 1
Typewriter supplies, ribbon..... 1
Upholstering materials, excelsior..... 2
Vinegar and cider..... 1
Wall plaster and composition flooring.. 3
Window and door screens..... 1
Wirework, including wire rope and cable, not elsewhere specified..... 3
Wood preserving..... 1
Wood, turned and carved..... 1
Wooden goods, not elsewhere specified. 4
Wool pulling..... 1

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

TABLE 31.—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	**SPOKANE**—All industries	364	6,145	277	281	556	276	4,752	Oc 5,302	Mh 4,268	5,289	4,217	1,055	12	5	*Dollars.* 27,040,590
2	Artificial stone products	3	10	4	1	.....	.....	5	Je [3] 9	Ja [3] 1	7	7	.....	.....	.....	17,853
3	Automobile bodies and parts	8	52	6	3	1	1	41	My [3] 48	Fe 33	42	42	.....	.....	.....	147,268
4	Automobile repairing	46	306	45	6	5	4	246	Se 297	Ja 189	280	278	1	1	.....	150,403
5	Boxes, wooden packing, except cigar boxes	4	221	.....	10	3	5	203	Se 255	Mh 170	204	185	19	.....	.....	854,593
6	Bread and other bakery products	26	419	22	13	37	16	331	De 389	Ja 276	393	249	144	.....	.....	806,085
7	Butter	5	159	.....	6	23	16	114	Jy 126	Ja 103	135	113	22	.....	.....	598,529
8	Confectionery and ice cream	14	589	8	16	41	27	497	Oc 612	Ja 404	562	188	374	.....	.....	1,222,939
9	Copper, tin, and sheet-iron work	15	106	18	7	6	2	73	No 92	Fe 50	72	72	.....	.....	.....	282,112
10	Flour-mill and gristmill products	6	160	2	11	29	8	110	De 146	Jy 78	146	143	3	.....	.....	3,998,476
11	Food preparations, not elsewhere specified	9	22	4	8	.....	1	9	Je [3] 11	Fe [3] 7	13	7	6	.....	.....	66,513
12	Foundry and machine-shop products	22	183	14	14	2	6	147	.....	.....	162	162	.....	.....	.....	349,292
13	Foundries	4	27	6	1	.....	.....	20	Ap [3] 24	No 15	28	28	.....	.....	.....	15,911
14	Machine shops	18	156	8	13	2	6	127	Je 150	Ja 103	134	134	.....	.....	.....	333,381
15	Fur goods	5	37	5	3	.....	.....	29	Oc [3] 41	Ap [3] 19	40	13	27	.....	.....	94,699
16	Furniture	13	55	12	4	1	.....	38	My 44	Ja [3] 33	38	38	.....	.....	.....	65,602
17	Hand stamps	3	10	4	.....	.....	.....	6	(4) 6	(4) 6	6	5	.....	1	.....	9,765
18	Iron and steel, welding	4	8	5	.....	.....	.....	3	(4) 3	(4) 3	3	3	.....	.....	.....	5,853
19	Lumber, planing-mill products, not including planing mills connected with sawmills	10	373	4	12	14	3	340	Oc 420	Ap 282	378	358	20	.....	.....	1,036,769
20	Marble and stone work, monuments and tombstones	4	22	1	5	3	.....	13	Oc 18	Ja 5	14	14	.....	.....	.....	43,099
21	Mattresses and spring beds, not elsewhere specified	3	21	.....	2	1	.....	18	No [3] 22	Ja 13	20	18	2	.....	.....	59,635
22	Mineral and carbonated waters	6	30	7	3	3	1	16	Jy 25	Ja [3] 10	14	14	.....	.....	.....	55,106
23	Pickles and sauces	3	18	2	2	1	.....	13	Au 62	Ja [3] 4	21	10	4	3	4	55,164
24	Printing and publishing, book and job	39	273	38	12	41	12	170	De 201	Fe 155	193	147	45	1	.....	743,484
25	Printing and publishing, newspapers and periodicals	11	486	8	29	159	107	183	De 208	Mh 158	212	198	14	.....	.....	2,168,818
26	Saddlery and harness	4	13	6	1	.....	.....	6	No [3] 8	Ja 4	8	8	.....	.....	.....	25,914
27	Tobacco, cigars	10	42	10	2	1	.....	29	Se [3] 31	Ja [3] 28	31	21	10	.....	.....	37,229
28	Vinegar and cider	5	47	2	8	4	1	32	No 42	Ja 22	34	34	.....	.....	.....	798,270
29	All other industries *	86	2,483	50	106	181	66	2,080	.....	.....	2,261	1,890	364	6	1	13,347,120

* All other industries embrace—

Agricultural implements 2
Artificial limbs 1
Awnings, tents, and sails 1
Belting, leather 1
Bookbinding and blank-book making. 2
Boxes, paper and other, cartons 1
Brick, building 1
Brooms, from broom corn 2
Brushes 1
Buttons 1
Canning and preserving, dried fruits .. 1
Carpets, rag 2
Cars and general shop construction and repairs by electric-railroad companies 2
Cars and general shop construction and repairs by steam-railroad companies 2
Cleansing preparations 1
Clothing, men's 4
Clothing, women's 1
Coffee, roasting and grinding 3
Coffins, burial cases, and undertakers' goods 2
Cooperage, hogsheads and barrels 1
Druggists' preparations 1
Electrical machinery, apparatus, and supplies 1
Engines, steam, gas, and water 1
Engraving, steel and copper plate, including plate printing 1
Fancy articles, not elsewhere specified. 1
Gas and electric fixtures 3
Gas, illuminating and heating 1
Hair work 2
Ice, manufactured 2
Jewelry 1
Liquors, malt 1

1	**TACOMA**—All industries	348	12,355	276	505	570	290	10,714	Mh 11,388	Fe 9,015	13,053	12,145	889	15	4	68,097,799
2	Artificial stone products	6	14	4	.....	.....	.....	10	Oc [3] 13	Ja 4	12	12	.....	.....	.....	239,800
3	Automobile bodies and parts	9	72	8	5	4	3	52	Ap 56	Ja 46	52	52	.....	.....	.....	183,912
4	Automobile repairing	33	209	40	9	3	7	150	Se 164	De 141	146	146	.....	.....	.....	308,066
5	Bread and other bakery products	29	344	30	12	30	16	256	De 278	Jy 242	278	146	121	9	2	672,566
6	Coffee, roasting and grinding	4	30	.....	4	5	3	18	(4) 18	(4) 18	18	12	6	.....	.....	192,284
7	Confectionery and ice cream	14	289	9	21	27	15	217	.....	.....	248	83	165	.....	.....	580,749
8	Confectionery	9	233	6	14	21	10	182	No 219	Au 160	214	51	163	.....	.....	423,320
9	Ice cream	5	56	3	7	6	5	35	Jy 49	Fe [3] 28	34	32	2	.....	.....	157,429
10	Copper, tin, and sheet-iron work	15	98	14	9	3	5	67	Oc 83	Fe 39	73	73	.....	.....	.....	406,839
11	Flour-mill and gristmill products	8	462	.....	30	51	22	359	No 468	Mh 292	438	433	5	.....	.....	7,159,567
12	Food preparations, not elsewhere specified	8	80	2	13	15	9	41	.....	.....	44	22	22	.....	.....	418,093
13	Breadstuffs, macaroni, vermicelli, and noodles	3	15	.....	4	.....	1	10	Oc [3] 12	Ja [3] 9	13	7	6	.....	.....	145,340
14	All other	5	65	2	9	15	8	31	Se 35	Ja 27	31	15	16	.....	.....	272,753
15	Foundry and machine-shop products	19	438	10	33	26	11	358	.....	.....	365	365	.....	.....	.....	2,522,805
16	Machine shops	11	47	8	8	.....	2	29	Au 40	Fe 7	30	30	.....	.....	.....	171,362
17	All other	8	391	2	25	26	9	329	Au 428	Fe 198	335	335	.....	.....	.....	2,351,443
18	Furniture	9	536	5	19	9	8	495	No 566	Fe 363	522	385	137	.....	.....	1,360,467
19	Ice, manufactured	3	36	2	2	2	2	28	Au 35	De 20	26	26	.....	.....	.....	129,323
20	Lumber and timber products	16	2,860	4	55	51	18	2,732	Oc 3,264	Fe 2,126	2,954	2,936	18	.....	.....	7,544,969
21	Lumber, planing-mill products, not including planing mills connected with sawmills	16	943	15	41	22	16	849	De 1,116	Fe 554	1,105	1,056	49	.....	.....	2,457,317

[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.[2]		
Dollars. 807,543	*Dollars.* 953,548	*Dollars.* 5,419,042	*Dollars.* 453,707	*Dollars.* 249,500	*Dollars.* 762,763	*Dollars.* 25,022,490	*Dollars.* 629,087	*Dollars.* 40,149,381	*Dollars.* 14,497,804	13,246	2,892	80	.....	150	10,124	142	1
1,575	.....	5,700	.....	582	15	9,473	638	26,291	16,180	53	.....	.....	.....	.....	53	.....	2
5,080	2,756	51,681	.....	2,370	2,309	49,808	2,900	143,520	90,812	127	.....	.....	.....	.....	127	.....	3
16,184	9,602	304,456	.....	39,609	2,324	237,093	14,717	701,140	539,330	261	.....	.....	.....	.....	261	.....	4
34,226	10,400	216,828	.....	4,395	11,136	477,187	17,409	1,176,514	681,918	986	580	.....	.....	.....	406	.....	5
49,838	94,079	356,848	.....	27,675	95,664	1,470,023	37,936	2,542,900	1,034,941	304	45	.....	.....	.....	259	44	6
19,777	35,061	93,434	.....	4,245	13,885	1,577,303	22,580	2,164,385	564,412	511	135	.....	.....	.....	376	.....	7
47,528	124,181	273,719	.....	11,540	63,458	1,533,617	34,458	2,760,691	1,192,616	371	.....	.....	.....	.....	371	.....	8
15,319	13,113	114,745	260	6,366	5,863	190,591	2,383	456,202	263,228	58	.....	.....	.....	.....	58	.....	9
42,536	52,716	163,542	.....	14,310	57,505	6,449,320	45,869	6,966,188	470,999	1,646	.....	.....	.....	150	1,496	.....	10
10,360	685	8,327	.....	4,051	695	176,219	3,938	237,241	57,084	65	.....	.....	.....	.....	65	.....	11
32,776	9,269	206,950	.....	7,025	4,814	246,834	15,964	625,118	362,320	224	.....	.....	.....	.....	224	.....	12
2,400	.....	31,343	.....	1,740	193	44,007	5,907	105,756	55,842	43	.....	.....	.....	.....	43	.....	13
30,376	9,269	175,607	.....	5,285	4,621	202,827	10,057	519,362	306,478	181	.....	.....	.....	.....	181	.....	14
4,928	.....	45,932	2,270	7,110	878	61,669	734	186,465	124,062	13	.....	.....	.....	.....	13	.....	15
12,600	600	40,848	.....	4,784	973	66,677	3,076	167,606	97,853	113	.....	.....	.....	.....	113	.....	16
.....	.....	4,976	950	2,100	77	7,508	408	24,833	16,917	7	.....	.....	.....	.....	7	.....	17
.....	.....	2,976	.....	1,110	61	5,210	1,041	26,794	14,543	12	.....	.....	.....	.....	12	.....	18
40,725	23,701	345,247	.....	1,778	35,076	1,129,800	21,172	1,700,145	549,173	1,198	230	.....	.....	.....	968	8	19
7,600	2,875	16,941	.....	540	5,640	51,597	2,706	121,271	66,968	76	.....	.....	.....	.....	76	.....	20
3,094	847	15,997	.....	1,600	1,404	51,700	1,522	84,756	31,534	46	.....	.....	.....	.....	46	.....	21
4,170	2,625	17,351	252	5,457	3,978	88,905	1,288	159,165	68,972	22	.....	.....	.....	.....	22	.....	22
3,475	480	11,571	.....	1,485	621	42,872	446	63,480	20,162	15	.....	.....	.....	.....	15	.....	23
33,490	44,720	228,981	5,654	17,197	17,725	299,934	7,894	854,884	547,056	177	.....	.....	.....	.....	177	.....	24
85,783	220,042	297,141	286,176	29,721	75,683	380,943	34,589	2,408,351	1,992,819	400	.....	.....	.....	.....	400	.....	25
1,820	.....	8,516	.....	2,256	315	35,920	104	56,693	20,669	6	.....	.....	.....	.....	6	.....	26
3,000	2,000	20,547	.....	788	7,800	28,133	457	64,652	36,062	.....	.....	.....	.....	.....	.....	.....	27
17,280	8,785	55,215	1,336	405	39,332	179,193	15,743	484,058	289,122	579	.....	.....	.....	.....	579	.....	28
313,779	295,011	2,510,573	156,809	51,001	315,532	10,174,871	339,115	15,862,038	5,348,052	5,976	1,902	80	.....	.....	3,994	90	29

Liquors, vinous..... 1
Lithographing..... 1
Looking-glass and picture frames..... 1
Lumber and timber products..... 4
Millinery and lace goods, not elsewhere specified..... 1
Mirrors, framed and unframed, not elsewhere specified..... 1
Models and patterns, not including paper patterns..... 1
Musical instruments and materials, not elsewhere specified..... 1
Optical goods..... 1
Paints..... 1
Patent and proprietary compounds, not elsewhere specified..... 2
Perfumery and cosmetics..... 2
Photo-engraving..... 2
Photographic materials..... 1
Pottery, earthen and stone ware..... 1
Signs, electric..... 1
Slaughtering and meat packing..... 5
Soap..... 1
Springs, steel, automobile..... 1
Statuary and art goods..... 1
Stoves and hot-air furnaces..... 1
Structural ironwork, not made in steel works or rolling mills..... 2
Tools, not elsewhere specified..... 1
Toys and games..... 2
Trunks and valises..... 2
Wooden goods, not elsewhere specified. 1

1,857,229	1,134,364	14,509,907	81,201	242,150	1,470,272	71,870,118	1,403,299	103,171,756	29,898,339	59,557	18,471	4,550	17	64	36,455	2,812	1
.....	.....	15,784	.....	1,280	661	17,496	679	53,015	34,840	51	.....	.....	15	.....	36	.....	2
13,200	4,540	70,798	.....	8,005	2,932	101,035	2,476	288,515	185,004	74	.....	.....	.....	.....	74	.....	3
21,272	10,881	215,744	7,666	35,154	5,106	349,328	4,142	755,704	402,234	169	.....	.....	.....	.....	169	.....	4
45,287	76,205	306,512	.....	20,049	23,329	1,172,630	24,489	2,035,708	838,589	242	.....	.....	.....	5	237	.....	5
17,900	20,224	27,226	.....	2,022	6,601	364,238	3,042	468,969	101,689	75	.....	.....	.....	.....	75	.....	6
69,790	45,053	187,373	.....	13,553	58,718	787,754	9,265	1,299,081	502,062	132	25	.....	.....	14	93	5	7
53,477	37,934	145,893	.....	9,371	52,208	589,567	7,264	959,144	362,313	60	25	.....	.....	14	21	5	8
16,313	7,119	41,480	.....	4,182	6,510	198,187	2,001	339,937	139,749	72	.....	.....	.....	.....	72	.....	9
24,550	6,016	85,147	.....	5,839	10,943	169,146	1,627	387,666	216,893	66	.....	.....	.....	.....	66	.....	10
100,189	123,386	587,607	11,413	5,478	116,575	18,827,686	82,394	21,089,220	2,179,140	5,176	1,775	.....	.....	45	3,356	.....	11
30,480	46,257	41,108	.....	6,320	3,119	511,528	4,409	747,715	231,778	125	.....	.....	.....	.....	125	.....	12
8,500	533	13,056	.....	1,080	1,185	120,725	1,399	191,732	69,608	47	.....	.....	.....	.....	47	.....	13
21,980	45,724	28,052	.....	5,240	1,934	390,803	3,010	555,983	162,170	78	.....	.....	.....	.....	78	.....	14
148,139	43,406	593,477	4,263	12,235	194,146	963,428	75,448	2,583,334	1,544,458	1,906	.....	.....	.....	.....	1,906	.....	15
17,019	2,121	52,984	4,263	6,515	1,319	102,129	2,743	215,607	110,735	97	.....	.....	.....	.....	97	.....	16
131,120	46,285	540,493	.....	5,720	192,827	861,299	72,705	2,367,727	1,433,723	1,809	.....	.....	.....	.....	1,809	.....	17
60,548	23,518	511,785	.....	2,400	38,773	546,171	19,437	1,530,527	964,919	1,229	700	.....	.....	.....	529	12	18
5,100	1,866	39,236	.....	.....	2,487	7,486	7,805	90,250	74,959	779	210	.....	.....	.....	569	.....	19
242,876	88,531	3,923,026	5,471	6,544	213,521	4,374,812	23,221	10,367,165	5,969,132	16,916	8,203	4,265	.....	.....	4,448	1,551	20
138,442	46,114	1,096,987	.....	20,593	72,081	2,342,513	11,691	4,591,675	2,237,471	4,258	2,510	.....	.....	.....	1,748	100	21

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

TABLE 31.—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.															
	TACOMA—Continued.															*Dollars.*
1	Marble and stone work	4	83	1	9	8	3	62	No 70	Se 57	61	61	.....	.....	.....	390,936
2	Mineral and carbonated waters	3	19	3	1	1	1	13	Au 17	Ja [3] 12	13	13	.....	.....	.....	56,639
3	Printing and publishing, book and job	32	205	37	20	30	11	107	De 116	Mh [3] 96	119	80	36	3	.....	452,900
4	Printing and publishing, newspapers and periodicals	15	444	11	20	91	47	275	Se 281	Mh 268	276	261	15	.....	.....	461,021
5	Shipbuilding, wooden, including boat building	7	700	7	14	25	15	639	Mh 2,298	De 45	2,145	2,145	.....	.....	.....	2,481,329
6	Tobacco, cigars and cigarettes	7	28	9	.....	.....	.....	19	(4) 19	(4) 19	19	13	6	.....	.....	25,789
7	All other industries *	91	4,465	65	188	167	78	3,967	.....	.....	4,139	3,825	309	3	2	40,052,428

* All other industries embrace—

Artificial limbs	1
Automobiles	1
Awnings, tents, and sails	2
Babbitt metal	1
Belting, leather	1
Boots and shoes	1
Boxes, cigar	1
Boxes, set-up paper boxes and cartons	2
Boxes, wooden packing, except cigar boxes	2
Brass and bronze products	2
Brooms, from broom corn	2
Brushes	1
Butter	2
Canning and preserving, fish	1
Carpets, rag	1
Cars and general shop construction and repairs by electric-railroad companies	3
Cars and general shop construction and repairs by steam-railroad companies	3
Cleansing preparations	1
Clothing, men's and youths'	1
Clothing, women's, wrappers and house dresses	3
Coal-tar products	2
Cordials and flavoring sirups	1
Dental goods	1
Druggists' preparations	1
Electroplating	1
Engines, steam, gas, and water	1
Ferroalloys	1
Fertilizers	1
Flavoring extracts	2
Fur goods	2
Furs, dressed	1
Gas, illuminating and heating	1

	CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.															
1	ABERDEEN	73	2,949	54	92	47	41	2,715	Au 2,979	Fe 2,360	2,601	2,530	71	.....	.....	8,596,114
2	BELLINGHAM	110	3,520	95	196	91	50	3,088	My 3,628	De 2,189	3,315	3,164	148	3	.....	13,581,271
3	EVERETT	127	3,649	97	133	88	49	3,273	Se 3,724	Fe 2,832	3,740	3,507	227	6	.....	16,479,920
4	HOQUIAM	38	2,293	30	41	35	23	2,164	Au 2,497	Mh 1,760	2,354	2,289	55	10	.....	7,026,479
5	VANCOUVER	39	4,827	28	101	119	57	4,522	Fe 5,176	No 3,492	3,882	3,856	26	.....	.....	52,577,128
6	WALLA WALLA	69	611	60	47	47	29	428	Oc 461	Ja 388	457	427	28	2	.....	3,020,340
7	YAKIMA	77	1,566	54	59	75	52	1,326	Oc 1,947	Fe 775	1,693	1,253	426	5	9	4,920,519

[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.								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.[2]		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*								
27,082	7,703	93,630	.....	3,709	8,153	140,924	3,107	398,985	254,954	378	.....	.....	.....	.....	378	.....	1
1,851	2,298	22,699	.....	1,020	4,532	49,399	427	113,891	64,065	10	.....	.....	.....	.....	10	.....	2
46,463	24,656	134,101	18,299	19,051	17,544	141,007	3,509	548,773	404,257	151	.....	.....	.....	.....	151	.....	3
84,926	149,769	311,600	24,015	10,251	10,520	392,271	6,277	1,281,863	883,315	260	.....	.....	.....	.....	260	.....	4
212,413	54,828	754,439	2,500	3,500	136,678	1,677,119	15,957	4,293,954	2,600,878	2,420	180	.....	.....	.....	2,240	.....	5
.....	.....	23,466	.....	2,580	8,214	32,672	263	75,589	42,654	.....	.....	.....	.....	.....	.....	.....	6
566,721	354,113	5,468,162	7,574	62,567	544,639	38,901,475	1,103,634	50,170,157	10,165,048	25,140	4,868	285	2	.....	19,985	1,144	7

Gloves and mittens, cloth, not including gloves made in textile mills. 2
Hand stamps 1
Hardware 1
Iron and steel forgings, not made in steel works or rolling mills 1
Iron and steel, welding 2
Jewelry 2
Knit goods 1
Liquors, malt 2
Lithographing 1
Mattresses and spring beds, not elsewhere specified 3
Mirrors, framed and unframed, not elsewhere specified 1
Models and patterns, not including paper patterns 1
Musical instruments and materials, not elsewhere specified 1
Oil, vegetable 1
Optical goods 1
Patent and proprietary medicines 1
Perfumery and cosmetics 1
Photo-engraving 2
Pickles and sauces 2
Rubber tires, tubes, and rubber goods, not elsewhere specified 1
Saddlery and harness 2
Shirts 1
Slaughtering and meat packing 1
Smelting and refining, copper 1
Soap 1
Stencils and brands 1
Stoves and hot-air furnaces 2
Structural ironwork, not made in steel works or rolling mills 1
Tinware, not elsewhere specified 1
Wall plaster and composition flooring 1
Window and door screens 1
Wood, turned and carved 1
Wooden goods, not elsewhere specified 2

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

540,228	180,572	4,474,438	17,200	35,094	451,325	7,526,161	131,987	15,757,723	8,096,575	14,504	11,417	1,200	6	.....	1,881	805	1
314,490	243,179	4,343,985	1,645	42,913	338,329	9,734,404	235,017	17,807,631	7,838,210	13,717	5,529	4,834	48	.....	3,306	5,195	2
439,670	196,512	4,816,742	24,113	40,605	636,656	11,774,130	132,874	21,886,682	9,979,678	21,702	7,712	11,331	190	.....	2,469	12,301	3
199,794	112,075	3,408,584	.....	11,835	293,682	6,287,426	19,447	11,872,031	5,565,158	14,732	10,936	3,000	.....	.....	796	6,248	4
503,838	416,978	7,088,030	5,500	17,186	81,328	11,695,683	233,857	21,251,700	9,322,160	8,553	3,020	.....	9	.....	5,524	74	5
100,153	81,796	537,704	5,130	24,365	42,756	2,774,222	82,108	4,322,636	1,466,306	1,744	426	.....	18	170	1,130	45	6
153,930	158,326	1,508,107	136,672	38,702	96,791	2,494,490	114,869	5,766,980	3,157,621	2,851	1,784	.....	4	.....	1,063	133	7

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

O

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES

MANUFACTURES: 1919

WEST VIRGINIA

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

CONTENTS

	Page
EXPLANATION OF TERMS	2
GENERAL STATISTICS.	
General character of the state	3
Comparative summary	4
Statistics for the state, by counties	5
Principal industries, ranked by value of products	6
Persons engaged in manufacturing industries	6
Average number of wage earners for selected industries, with per cent by sex and age	7
Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more	7
Wage earners, by months	7
Wage earners, by months, for selected industries and for cities	8
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities	9
Size of establishments, by average number of wage earners, for selected industries and for cities	10
Size of establishments, by value of products	11
Size of establishments, by value of products, for selected industries	12
Size of establishments, by value of products, for cities of 10,000 inhabitants or more	13
Character of ownership for selected industries and for cities	13
Manufactures, by population groups, in cities of 10,000 inhabitants or more	14
Number and horsepower of types of prime movers	15
Fuel consumed	15
SPECIAL STATISTICS.	
Steel works and rolling mills	16
Tin plate and terneplate, including the dipping departments of black-plate rolling mills	16
Glass	16
Lumber, lath, and shingles	17
Leather, tanned, curried, and finished	17
Flour-mill and gristmill products	17
Laundries	17
Dyeing and cleaning	18
Custom gristmills	18
Custom sawmills	18
GENERAL TABLES.	
Table 28.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909	19
Table 29.—Detailed statement of all industries combined and specified industries: 1919	20

WASHINGTON

GOVERNMENT PRINTING OFFICE

1921

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 bulletin 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 fuels is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

WEST VIRGINIA.

GENERAL STATISTICS.

General character of the state.—West Virginia has a gross area of 24,170 square miles, of which 24,022 represent land surface. The inhabitants of the state in 1900 numbered 958,800; in 1910, 1,221,119; and in 1920, 1,463,701. In total population West Virginia ranked twenty-seventh among the states in 1920. The number of inhabitants per square mile in 1910 was 50.8, the corresponding figure for 1920 being 60.9.

In 1920 there were 10 cities in the state—Bluefield, Charleston, Clarksburg, Fairmont, Huntington, Martinsburg, Morgantown, Moundsville, Parkersburg, and Wheeling—having more than 10,000 inhabitants. These 10 cities, with a combined population of 262,356 in that year, or 17.9 per cent of the total population for West Virginia, reported 41.2 per cent of the value of the state's manufactured products in 1919.

Importance and growth of manufactures (Table 1).—The increase in wages, cost of materials, and value of products, as presented in Table 1, are in a great measure due to the change in industrial conditions brought about by the World War. The increases shown, however, in primary horsepower and number of wage earners employed are indicative of the growth of the state's manufacturing activities. 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.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading, as indicating their importance from a manufacturing standpoint. In some instances, 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 29.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 200 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).—In general, increases from 1914 to 1919 are shown in all of the details for the 10 cities included in this table.

Wage earners, by months (Table 7).—The statistics for wage earners 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, and also for each of the 10 cities having more than 10,000 inhabitants. There were a number of industries in the state in 1919 in which the number of female wage earners predominated. The 10 cities combined reported a somewhat larger proportion of female wage earners than the state as a whole, 17.8 per cent as compared with 10.1 per cent for the state.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in West Virginia. In that year 17.3 per cent of the wage earners were included in the group "48 and under," as against 35.9 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 53.1 per cent of the total wage earners, as compared with 26.2 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 by the fact that of the total number of establishments in the state, 93.1 per cent were in the several classes having less than 101 wage earners, while such establishments employed but 27.2 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 6.9 per cent of the total manufacturing establishments in the state, but reported 72.8 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" constituted 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 1909, and in the case of 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 some 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 index of the extent of manufacturing activities.

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 36.7 per cent of the number of establishments in the state in 1919, they reported 91.4 per cent of the average number of wage earners and 90.7 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 13,447, or 21.5 per cent, and the value of products $256,380,229, or 149.2 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 10 cities in 1919 represented 30.8 per cent of the total in the state. They reported in that year 37.5 per cent of the average number of wage earners and 41.2 per cent of the total value of products.

Number and horsepower of types of prime movers (Table 16).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 50,149 horsepower, or 18 per cent. This increase, however, is chiefly due to the gain of 35,678 horsepower, or 130 per cent, in rented power. The owned power increased 14,471 horsepower, or 5.8 per cent, during the five-year period.

Fuel consumed (Table 17).—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.

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	2,785	2,749	2,586	2,109	1,824	1.3	6.3	22.6	15.6
Persons engaged	93,688	79,353	71,463	48,880	(2)	18.1	11.0	46.2	.....
Proprietors and firm members	2,524	2,559	2,599	2,230	(2)	−1.4	−1.5	16.5	.....
Salaried employees	8,128	5,716	4,971	2,892	1,744	42.2	15.0	71.9	65.8
Wage earners (average number)	83,036	71,078	63,893	43,758	33,080	16.8	11.2	46.0	32.3
Primary horsepower	328,653	278,504	217,496	138,578	91,894	18.0	28.1	56.9	50.8
Capital	$339,189,678	$175,995,011	$150,922,586	$86,820,823	$49,103,138	92.7	16.6	73.8	76.8
Salaries and wages	119,526,493	51,377,760	38,710,047	24,051,872	14,159,146	132.6	32.7	60.9	69.9
Salaries	17,686,073	7,593,754	5,709,692	2,898,830	1,519,290	132.9	33.0	97.0	90.8
Wages	101,840,420	43,784,006	33,000,355	21,153,042	12,639,856	132.6	32.7	56.0	67.3
Paid for contract work	2,121,422	2,257,677	2,201,287	1,508,180	(2)	−6.0	2.6	46.0	.....
Rent and taxes	16,308,373	2,952,432	2,229,295	[3] 532,746	(2)	452.4	32.4	.....	.....
Cost of materials	270,940,596	110,033,165	92,877,988	54,419,206	37,228,253	146.2	18.5	70.7	46.2
Value of products	471,970,877	193,511,782	161,949,526	99,040,676	67,006,822	143.9	19.5	63.5	47.8
Value added by manufacture [4]	201,030,281	83,478,617	69,071,538	44,621,470	29,778,569	140.8	20.9	54.8	49.8

[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	2,785	83,036	$101,840,420	$16,308,373	$270,940,596	$471,970,877	$201,030,281	328,653
Barbour	33	95	80,918	5,874	347,652	588,106	240,454	766
Berkeley	69	2,835	2,349,905	230,322	6,272,441	10,901,694	4,629,253	7,501
Boone	30	810	947,073	40,320	584,147	2,204,657	1,620,510	3,049
Braxton	39	411	427,239	9,368	477,354	1,128,530	651,176	1,248
Brooke	50	2,979	4,120,610	682,198	9,751,484	17,648,491	7,897,007	18,733
Cabell	121	6,606	7,165,499	2,229,761	22,394,266	38,471,134	16,076,868	18,054
Calhoun	11	37	46,085	2,853	297,319	422,729	125,410	184
Clay	15	128	124,822	1,082	78,580	362,210	283,630	400
Doddridge	32	110	193,185	7,821	196,800	473,831	277,031	859
Fayette	63	1,750	2,064,918	206,097	3,378,076	6,782,110	3,404,034	5,881
Gilmer	6	4	3,752	469	33,176	59,574	26,398	104
Grant	30	211	215,527	15,202	1,173,264	2,009,477	836,213	1,274
Greenbrier	51	803	917,902	157,298	1,096,564	2,678,100	1,581,536	3,674
Hampshire	41	237	179,999	3,575	1,854,570	2,229,056	374,486	1,037
Hancock	53	6,420	10,136,519	1,224,434	24,303,475	39,208,133	14,904,658	37,902
Hardy	25	148	127,269	7,817	1,621,803	2,135,228	513,425	640
Harrison	151	5,329	7,812,976	1,236,833	14,021,597	29,170,889	15,149,292	18,893
Jackson	33	85	55,595	5,590	453,866	610,755	156,889	896
Jefferson	49	821	688,566	78,093	1,910,318	3,474,047	1,563,729	7,663
Kanawha	179	5,283	6,407,950	1,260,476	18,135,452	34,463,090	16,327,638	27,255
Lewis	26	390	529,520	58,865	867,391	1,891,924	1,024,533	1,156
Lincoln	9	24	23,138	749	23,538	96,569	73,031	163
Logan	19	483	560,919	11,052	392,955	1,259,490	866,535	1,116
McDowell	41	885	951,168	81,358	1,958,346	3,646,707	1,688,361	1,619
Marion	114	2,725	3,341,266	260,948	4,883,785	10,997,867	6,114,082	7,853
Marshall	90	5,336	7,112,426	648,161	23,968,442	36,696,629	12,728,187	30,020
Mason	26	541	606,602	84,993	1,111,068	2,262,555	1,151,487	1,977
Mercer	64	2,301	3,013,816	83,241	6,165,438	10,280,988	4,115,550	4,314
Mineral	32	2,105	3,021,541	29,900	2,132,629	5,552,124	3,429,495	3,735
Mingo	19	866	1,166,727	18,688	787,538	2,253,530	1,465,992	1,325
Monongalia	104	2,771	3,845,607	280,858	9,686,860	16,333,355	6,646,495	8,998
Monroe	31	36	34,114	4,112	311,119	458,063	146,944	625
Morgan	41	632	529,728	22,955	2,300,826	3,489,697	1,188,871	4,618
Nicholas	28	2,420	2,799,244	337,700	8,650,348	13,468,589	4,818,241	8,213
Ohio	257	9,032	10,580,734	4,330,037	56,656,495	85,086,091	28,429,596	36,774
Pendleton	19	7	5,055	629	177,773	228,576	50,803	285
Pleasants	39	265	237,349	182,959	1,243,633	1,865,021	621,388	876
Pocahontas	30	1,693	2,226,278	140,804	6,248,755	10,937,955	4,689,200	4,449
Preston	62	549	546,943	36,262	754,684	1,928,568	1,173,884	8,850
Putnam	11	38	23,886	1,162	52,967	141,051	88,084	208
Raleigh	44	592	884,163	99,386	763,557	2,197,271	1,433,714	2,437
Randolph	53	2,108	2,340,298	154,148	3,535,703	7,583,106	4,047,403	5,984
Ritchie	59	316	505,889	37,445	1,040,454	2,263,154	1,222,700	1,201
Roane	21	60	62,439	5,474	261,847	399,389	137,542	445
Summers	34	446	610,603	5,470	394,779	1,182,554	787,775	929
Taylor	41	1,742	2,131,580	137,071	2,067,580	5,483,059	3,415,479	4,171
Tucker	40	1,046	1,229,355	70,103	2,105,608	4,395,531	2,289,923	6,738
Tyler	44	308	385,752	46,885	710,050	1,444,434	734,384	1,141
Upshur	56	599	621,606	95,569	1,349,735	2,716,559	1,366,824	1,883
Wayne	29	847	940,571	119,299	1,261,023	2,812,159	1,551,136	2,750
Webster	20	1,050	1,020,582	73,674	508,747	2,768,390	2,259,643	2,171
Wetzel	88	797	751,574	94,724	1,067,557	2,414,328	1,346,771	2,746
Wirt	6	5	1,975	684	14,709	25,964	11,255	115
Wood	100	4,360	4,282,414	1,295,487	18,257,231	30,491,253	12,234,022	10,799
Wyoming	7	559	849,249	52,038	845,222	1,886,536	1,041,314	1,926

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	2,785	83,036	100.0	$471,971	100.0	$201,030	100.0
Iron and steel, steel works and rolling mills	20	11,630	14.0	85,036	18.0	34,242	17.0
Glass	77	11,668	14.1	42,730	9.0	28,929	14.4
Lumber and timber products	643	12,427	15.0	34,420	7.3	25,868	12.9
Cars and general shop construction and repairs by steam-railroad companies	38	11,609	14.0	28,248	6.0	17,773	8.8
Leather, tanned, curried, and finished	17	1,520	1.8	23,827	5.0	4,748	2.4
Slaughtering and meat packing	10	639	0.8	19,044	4.0	2,245	1.1
Foundry and machine-shop products	86	1,911	2.3	14,665	3.1	7,791	3.9
Flour-mill and gristmill products	203	371	0.4	13,077	2.8	2,546	1.3
Lumber, planing-mill products, not including planing mills connected with sawmills	121	1,054	1.3	10,909	2.3	3,216	1.6
Pottery	18	3,445	4.1	10,112	2.1	7,074	3.5
Coke, not including gas-house coke	57	1,283	1.5	8,369	1.8	2,331	1.2
Bread and other bakery products	146	707	0.9	6,879	1.5	2,104	1.0
Iron and steel, blast furnaces	4	417	0.5	6,412	1.4	901	0.4
Paper and wood pulp	9	956	1.2	4,888	1.0	1,588	0.8
Stamped and enameled ware, not elsewhere specified	5	1,233	1.5	4,183	0.9	2,451	1.2
Tobacco, cigars and cigarettes	65	1,163	1.4	4,075	0.9	2,366	1.2
Clothing, men's	15	917	1.1	3,822	0.8	1,622	0.8
Printing and publishing, newspapers and periodicals	151	952	1.1	3,403	0.7	2,347	1.2
Chemicals	7	534	0.6	$3,281	0.7	$1,158	0.6
Furniture	16	741	0.9	3,220	0.7	1,639	0.8
Confectionery and ice cream	75	342	0.4	3,178	0.7	1,318	0.7
Woolen and worsted goods	7	542	0.7	2,779	0.6	1,087	0.5
Minerals and earths, ground	19	831	1.0	2,604	0.6	1,563	0.8
Bone and carbon black	16	242	0.3	2,407	0.5	1,176	0.6
Lime	9	727	0.9	2,395	0.5	1,488	0.7
Brick, terra-cotta, and fire-clay products	36	1,032	1.2	2,316	0.5	1,531	0.8
Automobile repairing	158	421	0.5	2,300	0.5	1,462	0.7
Copper, tin, and sheet-iron work	39	170	0.2	2,151	0.5	543	0.3
Mineral and carbonated waters	74	247	0.3	1,765	0.4	857	0.4
Ice, manufactured	54	372	0.4	1,515	0.3	1,032	0.5
Printing and publishing, book and job	71	387	0.5	1,434	0.3	908	0.5
Cooperage	47	226	0.3	1,274	0.3	406	0.2
Mattresses and spring beds, not elsewhere specified	7	106	0.1	1,111	0.2	411	0.2
Boxes, wooden packing, except cigar boxes	9	184	0.2	985	0.2	300	0.1
Boxes, paper, shipping containers	4	154	0.2	981	0.2	377	0.2
Paints	4	132	0.2	864	0.2	469	0.2
Saddlery and harness	51	78	0.1	789	0.2	334	0.2
Carriages and wagons, including repairs	36	137	0.2	626	0.1	306	0.2
Coffee, roasting and grinding	5	29	(1)	553	0.1	86	(1)
Marble and stone work	35	83	0.1	505	0.1	202	0.1
All other industries [2]	321	11,417	13.7	108,839	23.1	32,175	16.0

[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 a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Boots and shoes"; "cars, steam-railroad, not including operations of railroad companies"; "coal-tar products"; "cutlery and edge tools"; "dyeing and finishing textiles, exclusive of that done in textile mills"; "galvanizing"; "knit goods"; "lamps"; "petroleum, refining"; "shipbuilding, steel"; "smelting and refining, zinc"; "tin plate and terneplate"; "tinware, not elsewhere specified"; "tobacco, chewing and smoking, and snuff"; "tools, not elsewhere specified;" and "wood preserving."

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

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL	
					Male.	Female.
All classes	1919	93,688	83,795	9,893	89.4	10.6
	1914	79,353	72,711	6,642	91.6	8.4
	1909	71,463	66,121	5,342	92.5	7.5
Proprietors and officials	1919	6,152	6,004	148	97.6	2.4
	1914	4,668	4,573	95	98.0	2.0
	1909	4,508	4,423	85	98.1	1.9
Proprietors and firm members	1919	2,524	2,433	91	96.4	3.6
	1914	2,559	2,485	74	97.1	2.9
	1909	2,599	2,527	72	97.2	2.8
Salaried officers of corporations	1919	997	975	22	97.8	2.2
	1914	652	639	13	98.0	2.0
	1909	568	562	6	98.9	1.1
Superintendents and managers	1919	2,631	2,596	35	98.7	1.3
	1914	1,457	1,449	8	99.5	0.5
	1909	1,341	1,334	7	99.5	0.5
Clerks and other subordinate salaried employees.	1919	4,500	3,107	1,393	69.0	31.0
	1914	3,607	2,939	668	81.5	18.5
	1909	3,062	2,505	557	81.8	18.2
Wage earners (average number)	1919	83,036	74,684	8,352	89.9	10.1
	1914	71,078	65,199	5,879	91.7	8.3
	1909	63,893	59,193	4,700	92.6	7.4
16 years of age and over	1919	82,592	74,350	8,242	90.0	10.0
	1914	70,583	64,862	5,721	91.9	8.1
	1909	62,840	58,335	4,505	92.8	7.2
Under 16 years of age	1919	444	334	110	75.2	24.8
	1914	495	337	158	68.1	31.9
	1909	1,053	858	195	81.5	18.5

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.	Female.	Under 16 years of age.
All industries	1919	83,036	89.5	9.9	0.5
	1914	71,078	91.3	8.0	0.7
	1909	63,893	91.3	7.0	1.6
Automobile repairing	1919	421	98.8	0.2	1.0
	1914	104	99.0	1.0	.....
Bone and carbon black	1919	242	100.0	.....	.....
	1914	161	99.4	0.6	.....
Bread and other bakery products	1919	707	85.1	14.0	0.8
	1914	569	85.3	14.2	0.5
Brick, terra-cotta, and fire-clay products	1919	1,032	94.9	5.0	0.1
	1914	1,451	95.5	4.4	0.1
Cars and general shop construction and repairs by steam-railroad companies.	1919	11,609	99.3	0.7	.....
	1914	8,437	99.8	0.1	0.1
Chemicals	1919	534	98.7	1.3	.....
	1914	52	100.0	.....	.....
Clothing, men's	1919	917	36.3	63.7	.....
	1914	491	21.0	79.0	.....
Coke, not including gas-house coke	1919	1,283	100.0	.....	.....
	1914	1,392	100.0	.....	.....
Confectionery and ice cream	1919	342	78.4	20.5	1.2
	1914	195	82.1	16.9	1.0
Cooperage	1919	226	97.3	1.8	0.9
	1914	232	99.1	.....	0.9
Flour-mill and gristmill products	1919	371	97.8	1.3	0.8
	1914	381	99.7	0.3	.....
Foundry and machine-shop products [1]	1919	1,941	99.7	0.2	0.1
	1914	1,678	100.0	.....	.....
Furniture	1919	741	95.3	4.6	0.1
	1914	560	97.7	1.8	0.5
Glass	1919	11,668	85.7	12.8	1.5
	1914	8,889	90.4	8.7	0.9
Ice, manufactured	1919	372	98.9	1.1	.....
	1914	364	98.6	.....	1.4
Iron and steel, blast furnaces [2]	1919	417	100.0	.....	.....
Iron and steel, steel works and rolling mills	1919	11,630	98.8	1.2	.....
	1914	5,348	99.8	0.2	.....
Leather, tanned, curried, and finished	1919	1,520	99.3	0.7	.....
	1914	1,072	99.9	.....	0.1
Lime	1919	727	99.9	0.1	.....
	1914	773	100.0	.....	.....
Lumber and timber products	1919	12,427	99.5	0.4	0.1
	1914	16,091	99.7	0.1	0.2
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	1,054	98.6	0.2	1.2
	1914	1,153	98.8	0.3	0.9
Mineral and carbonated waters	1919	247	97.6	2.0	0.4
	1914	148	94.6	2.7	2.7
Minerals and earths, ground	1919	831	100.0	.....	.....
	1914	422	99.8	0.2	.....
Paper and wood pulp	1919	956	94.1	5.8	0.1
	1914	1,033	94.7	5.3	.....
Pottery	1919	3,445	71.4	27.3	1.3
	1914	3,339	67.9	30.9	1.2
Printing and publishing, book and job	1919	387	63.8	23.5	12.7
	1914	342	72.2	25.7	2.0
Printing and publishing, newspapers and periodicals.	1919	952	79.2	19.6	1.2
	1914	816	75.9	19.6	4.5
Slaughtering and meat packing	1919	639	92.2	7.8	.....
	1914	214	96.7	3.3	.....
Stamped and enameled ware, not elsewhere specified. [2]	1919	1,233	62.5	36.5	0.9
Tobacco, cigars and cigarettes [2]	1919	1,163	35.8	63.9	0.3
Woolen and worsted goods	1919	542	57.7	42.3	.....
	1914	276	61.2	37.3	1.4
All other industries	1919	12,460	76.2	22.9	0.8
	1914	15,065	79.2	19.0	1.7

[1] Includes "iron and steel, welding."

[2] Not shown separately in 1914.

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. Total. 1919	1914	1909	16 years of age and over. Male. 1919	1914	1909	Female. 1919	1914	1909	Under 16 years of age. 1919	1914	1909	VALUE OF PRODUCTS. 1919	1914	1909
Bluefield	1,442	1,247	670	1,428	1,238	643	12	4	18	2	5	9	$5,797,475	$2,173,008	$1,465,039
Charleston	2,259	1,081	951	1,975	946	789	282	125	155	2	10	7	13,872,624	3,699,447	3,235,363
Clarksburg	2,321	316	.....	2,122	298	.....	184	18	.....	15	.....	.....	11,881,831	1,653,859	.....
Fairmont	1,931	1,837	.....	1,669	1,671	.....	262	162	.....	.....	4	.....	8,278,398	4,383,674	.....
Huntington	6,556	4,641	3,156	5,555	4,399	2,955	946	235	108	55	7	93	37,707,241	11,400,468	6,511,260
Martinsburg	2,188	1,568	1,420	1,101	741	756	1,030	750	629	57	77	35	9,003,301	3,021,938	2,515,458
Morgantown	1,303	1,470	.....	1,073	1,263	.....	215	172	.....	15	35	.....	4,643,456	2,337,990	.....
Moundsville	1,649	1,508	.....	1,268	1,191	.....	330	296	.....	51	21	.....	6,772,848	3,628,793	.....
Parkersburg	2,878	1,820	1,495	2,307	1,446	1,286	569	365	187	2	9	22	24,056,134	7,142,990	5,498,452
Wheeling	8,622	7,920	7,809	6,867	6,428	6,052	1,654	1,393	1,492	101	99	265	72,639,728	27,878,933	27,077,151

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

MONTH.	NUMBER.[1] 1919	1914	1909	PER CENT OF MAXIMUM. 1919	1914	1909	MONTH.	NUMBER.[1] 1919	1914	1909	PER CENT OF MAXIMUM. 1919	1914	1909
January	80,721	71,642	*56,191*	90.7	93.4	81.2	July	81,129	69,880	62,187	91.1	91.1	89.9
February	81,101	71,608	57,393	91.1	93.4	82.9	August	87,105	71,044	65,651	97.8	92.7	94.9
March	81,170	74,664	60,499	91.2	97.4	87.4	September	**89,041**	71,664	68,299	100.0	93.5	98.7
April	80,719	**76,677**	62,456	90.7	100.0	90.3	October	84,209	69,773	**69,202**	94.6	91.0	100.0
May	*79,617*	76,205	62,655	89.4	99.4	90.5	November	84,362	63,875	68,647	94.7	83.3	99.2
June	79,901	73,332	65,467	89.7	95.6	94.6	December	87,357	*62,572*	68,056	98.1	81.6	98.3

The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by **bold-faced** figures, minumum 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	83,036	80,721	81,101	81,170	80,719	*79,617*	79,901	81,129	87,105	**89,041**	84,209	84,362	87,357	89.4
Males	74,684	72,943	73,393	73,404	72,913	*71,684*	71,775	73,177	78,503	**80,001**	74,925	75,253	78,237	89.6
Females	8,352	7,778	*7,708*	7,766	7,806	7,933	8,126	7,952	8,602	9,040	**9,284**	9,109	9,120	83.0
Automobile repairing	421	*351*	*351*	362	400	429	454	477	**481**	475	436	420	416	73.0
Bone and carbon black	242	233	**258**	236	243	241	253	240	247	236	251	*229*	237	88.8
Bread and other bakery products	707	640	*638*	659	679	681	716	733	742	756	758	**765**	717	83.4
Brick, terra-cotta, and fire-clay products	1,032	*788*	*788*	903	993	1,047	1,158	**1,198**	1,183	1,196	1,179	1,018	933	65.8
Cars and general shop construction and repairs by steam-railroad companies	11,609	11,937	11,831	11,108	*10,534*	10,547	11,083	11,383	11,772	12,070	12,356	12,293	**12,394**	85.0
Chemicals	534	502	517	480	472	*452*	478	527	567	624	**635**	615	479	71.2
Clothing, men's	917	791	804	*766*	794	917	950	923	943	993	991	1,061	**1,071**	71.5
Coke, not including gas-house coke	1,283	**2,073**	1,947	1,572	1,219	1,082	1,075	1,022	1,260	1,248	916	*905*	1,076	43.7
Confectionery and ice cream	342	271	*263*	294	320	370	**414**	404	390	374	354	335	315	63.5
Cooperage	226	*197*	199	213	227	209	209	232	281	**283**	244	213	205	69.6
Flour-mill and gristmill products	371	375	364	364	360	*355*	359	362	371	382	378	**391**	**391**	90.8
Foundry and machine-shop products	1,911	1,817	*1,714*	*1,714*	1,793	1,775	1,903	1,947	2,051	2,025	2,038	2,054	**2,101**	81.6
Furniture	741	665	*651*	668	661	679	726	738	819	**830**	827	824	804	78.4
Glass	11,668	10,448	11,681	12,178	11,572	11,734	10,387	*9,554*	11,807	12,459	**12,854**	12,599	12,743	74.3
Ice, manufactured	372	*235*	236	260	334	387	499	513	502	451	418	313	313	45.8
Iron and steel, blast furnaces	417	484	352	318	303	253	*252*	266	690	**708**	380	426	572	35.6
Iron and steel, steel works and rolling mills	11,630	12,794	12,824	12,603	12,549	11,043	11,579	12,084	12,871	**13,210**	*7,920*	8,884	11,199	60.0
Leather, tanned, curried, and finished	1,520	1,489	1,511	1,577	1,542	1,512	1,568	1,579	1,513	1,528	1,519	1,476	*1,426*	90.3
Lime	727	740	**755**	744	718	706	736	726	755	748	*697*	700	699	92.3
Lumber and timber products	12,427	10,929	*10,880*	11,878	12,089	12,116	12,339	12,748	13,153	13,146	13,244	13,103	**13,499**	80.6
Lumber, planing-mill products, not including planing mills connected with sawmills	1,054	944	*941*	956	1,000	1,061	1,088	1,050	1,086	1,085	1,143	1,132	1,162	81.0
Mineral and carbonated waters	247	*182*	185	209	231	269	306	323	310	283	237	223	206	56.3
Minerals and earths, ground	831	797	*766*	768	767	802	810	864	**891**	874	869	887	877	86.0
Paper and wood pulp	956	**1,171**	1,100	*854*	901	942	924	953	943	939	918	903	924	72.9
Pottery	3,445	*3,272*	3,285	3,316	3,313	3,313	3,395	3,421	3,448	3,511	3,604	3,714	**3,748**	87.3
Printing and publishing, book and job	387	*366*	368	371	374	380	398	399	397	395	396	402	398	91.0
Printing and publishing, newspapers and periodicals	952	928	*921*	940	933	962	965	953	959	963	957	**975**	968	94.5
Slaughtering and meat packing	639	716	662	600	591	597	597	619	621	*582*	590	708	785	74.1
Stamped and enameled ware, not elsewhere specified	1,233	1,192	1,249	*1,190*	1,220	1,214	1,220	1,211	1,226	1,202	1,243	**1,325**	1,304	89.8
Tobacco, cigars and cigarettes	1,163	1,005	*958*	1,049	1,083	1,039	1,058	1,066	1,255	1,318	1,325	**1,395**	1,395	69.4
Woolen and worsted goods	542	476	450	*412*	465	486	576	597	598	602	612	607	623	66.1
All other industries	12,490	11,853	11,642	11,608	12,039	12,017	*11,423*	12,017	12,973	13,542	**13,920**	13,466	13,377	82.1
Industries showing large proportion of females.														
Bread and other bakery products	100	90	*89*	92	99	99	105	105	105	**107**	106	104	99	83.2
Clothing, men's	584	480	463	*425*	463	567	592	585	625	672	664	735	737	57.7
Glass	1,512	1,480	1,480	1,491	1,499	1,549	1,561	*1,350*	1,492	1,542	**1,581**	1,579	1,560	84.1
Pottery	956	*913*	937	944	932	931	960	936	935	966	1,001	**1,009**	1,008	90.5
Printing and publishing, book and job	100	97	97	96	*95*	*95*	102	107	105	101	100	103	102	88.8
Printing and publishing, newspapers and periodicals	189	182	*181*	186	184	188	187	190	189	193	190	198	**200**	90.5
Stamped and enameled ware, not elsewhere specified	460	447	469	464	467	448	445	*441*	450	446	459	**494**	490	89.3
Tobacco, cigars and cigarettes	744	724	679	730	720	628	657	*611*	767	821	815	**838**	838	68.8
Woolen and worsted goods	229	227	210	186	*178*	203	232	245	254	254	**255**	252	252	69.8
Total for cities	31,149	29,893	30,157	30,125	29,744	*29,635*	30,449	30,602	32,491	32,633	32,502	32,573	**32,984**	89.8
Males	25,600	24,752	25,051	24,998	24,547	*24,348*	25,010	25,260	26,785	**26,814**	26,447	26,411	26,782	90.8
Females	5,549	5,141	*5,106*	5,127	5,197	5,292	5,439	5,342	5,706	5,819	6,055	6,162	**6,202**	82.3
BLUEFIELD	1,442	1,585	1,583	*1,192*	1,259	1,283	1,256	1,390	1,543	**1,586**	1,585	1,468	1,574	75.2
Males	1,430	1,570	1,570	*1,179*	1,247	1,269	1,243	1,381	1,534	**1,576**	1,575	1,458	1,558	74.8
Females	12	15	13	13	12	14	13	*9*	*9*	10	10	10	16	56.2
CHARLESTON	2,250	*1,981*	2,065	2,189	2,181	2,223	2,219	2,211	2,280	2,351	2,490	**2,491**	2,427	79.5
Males	1,977	*1,725*	1,803	1,936	1,939	1,961	1,945	1,937	1,970	2,033	**2,181**	2,174	2,120	79.1
Females	282	256	262	253	*242*	262	274	274	310	318	309	317	307	76.1
CLARKSBURG	2,321	2,178	2,155	2,225	*2,026*	2,028	2,139	2,171	2,432	2,555	**2,690**	2,646	2,607	75.3
Males	2,137	2,001	1,978	2,048	1,861	*1,843*	1,949	1,986	2,252	2,368	**2,493**	2,454	2,411	73.9
Females	184	177	177	177	*165*	185	190	185	180	187	197	192	196	83.8
FAIRMONT	1,931	1,718	1,714	*1,680*	1,770	1,787	1,824	1,794	2,181	2,232	**2,249**	2,213	2,010	74.7
Males	1,669	*1,478*	1,488	1,484	1,534	1,536	1,557	1,548	1,893	1,929	**1,947**	1,910	1,714	75.9
Females	262	240	226	*196*	236	251	257	246	288	303	302	303	296	64.7
HUNTINGTON	6,556	6,460	6,676	6,786	6,416	6,279	6,253	*6,169*	6,561	6,551	6,758	**6,892**	6,871	89.5
Males	5,600	5,523	5,807	**5,908**	5,527	5,454	*5,362*	5,367	5,543	5,503	5,749	5,738	5,719	90.8
Females	956	937	869	878	889	825	891	*802*	1,018	1,048	1,009	1,154	1,152	69.5
MARTINSBURG	2,188	2,076	*2,067*	2,148	2,220	2,232	2,206	2,247	2,143	2,133	**2,369**	2,202	2,213	87.3
Males	1,137	1,060	*1,040*	1,085	1,141	1,145	1,157	1,177	1,131	1,142	**1,243**	1,165	1,158	83.7
Females	1,051	1,016	1,027	1,063	1,079	1,087	1,049	1,070	1,012	*991*	1,126	1,037	1,055	88.0
MORGANTOWN	1,303	1,221	1,194	*1,179*	1,184	1,309	1,339	1,250	1,377	1,392	1,395	1,418	1,378	83.1
Males	1,084	1,024	1,003	*978*	*978*	1,099	1,119	1,044	1,141	1,160	1,150	1,169	1,143	83.7
Females	219	197	*191*	201	206	210	220	206	236	232	245	249	235	76.7
MOUNDSVILLE	1,649	1,469	1,566	1,560	1,579	1,661	1,706	*1,230*	1,765	1,702	1,795	1,846	**1,909**	64.4
Males	1,306	1,177	1,251	1,237	1,261	1,315	1,342	*970*	1,400	1,343	1,435	**1,478**	1,463	65.6
Females	343	292	315	323	318	346	364	*260*	365	359	360	368	446	58.3
PARKERSBURG	2,878	2,374	*2,355*	2,556	2,690	2,771	2,939	3,027	3,155	3,133	3,150	3,191	3,195	73.7
Males	2,309	1,934	*1,912*	2,098	2,200	2,228	2,388	2,454	**2,549**	2,490	2,447	2,495	2,513	75.0
Females	569	*440*	443	458	490	543	551	573	606	643	703	696	682	62.6
WHEELING	8,622	8,831	8,782	8,610	8,419	8,062	8,568	**9,113**	9,054	8,998	*8,021*	8,206	8,800	88.0
Males	6,951	7,260	7,199	7,045	6,859	6,493	6,938	**7,396**	7,372	7,270	*6,287*	6,370	6,983	84.2
Females	1,671	1,571	1,583	1,565	*1,560*	1,569	1,630	1,717	1,682	1,728	1,794	1,836	1,817	85.0

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	83,036	9,105	2,222	18,493	8,040	8,277	15,127	18,226	3,546
	1914	71,078	(2)	(2)	12,286	7,316	7,503	6,201	26,454	11,318
	1909	63,893	(2)	(2)	7,181	3,162	6,503	7,304	31,480	8,263
Automobile repairing	1919	421	6	.....	82	31	123	9	139	31
	1914	104	(2)	(2)	20	.....	43	.....	41	.....
Bone and carbon black	1919	242	.....	.....	40	.....	5	72	12	113
	1914	161	(2)	(2)	.....	.....	.....	.....	.....	161
Bread and other bakery products	1919	707	4	.....	286	21	151	57	172	16
	1914	569	(2)	(2)	60	.....	75	65	314	55
Brick, terra-cotta, and fire-clay products	1919	1,032	87	10	447	.....	176	91	151	70
	1914	1,451	(2)	(2)	384	66	237	15	749	.....
Cars and general shop construction and repairs by steam-railroad companies.	1919	11,609	.....	.....	2,816	.....	.....	8,777	16	.....
	1914	8,437	(2)	(2)	2,089	472	1,010	.....	306	4,560
Chemicals	1919	534	.....	.....	1	141	.....	2	250	140
	1914	52	(2)	(2)	.....	.....	.....	49	3	.....
Clothing, men's	1919	917	.....	11	519	371	.....	.....	16	.....
	1914	491	(2)	(2)	115	89	273	.....	14	.....
Coke, not including gas-house coke	1919	1,283	23	2	568	3	211	.....	160	316
	1914	1,392	(2)	(2)	.....	29	195	.....	717	451
Confectionery and ice cream	1919	342	1	.....	43	10	58	20	111	99
	1914	195	(2)	(2)	4	3	51	36	62	39
Cooperage	1919	226	36	.....	111	4	.....	40	35	.....
	1914	232	(2)	(2)	40	.....	43	39	110	.....
Flour-mill and gristmill products	1919	371	1	2	22	2	19	40	271	14
	1914	381	(2)	(2)	16	.....	20	19	294	32
Foundry and machine-shop products[3]	1919	1,941	.....	2	244	232	1,213	62	188	.....
	1914	1,678	(2)	(2)	135	10	703	227	603	.....
Furniture	1919	741	.....	.....	107	.....	327	282	25	.....
	1914	560	(2)	(2)	92	.....	9	.....	459	.....
Glass	1919	11,668	2,662	1,321	4,437	1,167	641	402	676	362
	1914	8,889	(2)	(2)	2,315	3,931	532	983	1,128	.....
Ice, manufactured	1919	372	1	.....	88	.....	26	25	112	120
	1914	364	(2)	(2)	.....	1	41	16	141	165
Iron and steel, blast furnaces[4]	1919	417	165	.....	.....	.....	.....	.....	.....	252
Iron and steel, steel works and rolling mills	1919	11,630	4,997	.....	2,276	1,269	.....	240	1,539	1,309
	1914	5,348	(2)	(2)	2,123	51	962	740	535	937
Leather, tanned, curried, and finished	1919	1,520	.....	.....	752	3	574	.....	191	.....
	1914	1,072	(2)	(2)	.....	80	139	.....	853	.....
Lime	1919	727	.....	.....	.....	.....	.....	.....	623	104
	1914	773	(2)	(2)	.....	.....	.....	88	558	127
Lumber and timber products	1919	12,427	178	70	129	320	1,146	348	10,236	.....
	1914	16,091	(2)	(2)	104	171	202	140	12,404	3,070
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	1,054	33	.....	59	41	425	134	362	.....
	1914	1,153	(2)	(2)	204	19	169	79	682	.....
Mineral and carbonated waters	1919	247	6	.....	73	21	61	52	27	7
	1914	148	(2)	(2)	9	3	38	6	82	10
Minerals and earths, ground	1919	831	.....	.....	69	19	96	5	629	13
	1914	422	(2)	(2)	.....	.....	10	.....	410	2
Paper and wood pulp	1919	956	.....	.....	630	.....	161	78	75	12
	1914	1,033	(2)	(2)	.....	.....	.....	66	666	301
Pottery	1919	3,445	.....	532	.....	1,734	768	61	350	.....
	1914	3,339	(2)	(2	2,084	690	327	.....	238	.....
Printing and publishing, book and job	1919	387	.....	.....	313	3	25	4	8	34
	1914	342	(2)	(2)	212	51	76	.....	3	.....
Printing and publishing, newspapers and periodicals	1919	952	17	13	626	54	58	125	59	.....
	1914	846	(2)	(2)	499	39	212	10	86	.....
Slaughtering and meat packing	1919	639	.....	211	347	.....	53	27	.....	1
	1914	214	(2)	(2)	.....	171	1	.....	42	.....
Stamped and enameled ware, not elsewhere specified.[4]	1919	1,233	.....	.....	448	480	.....	305	.....	.....
Tobacco, cigars and cigarettes.[4]	1919	1,163	186	37	291	639	8	.....	2	.....
Woolen and worsted goods	1919	542	.....	.....	33	83	70	340	16	.....
	1914	276	(2)	(2)	.....	.....	36	.....	240	.....
All other industries	1919	12,460	702	11	2,636	1,392	1,882	3,629	1,775	533
	1914	15,065	(2)	(2)	1,781	1,440	2,099	3,623	4,714	1,408

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

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.
Total for cities	1919	31,149	2,130	991	11,308	3,587	4,210	5,914	2,361	648
	1914	23,408	(2)	(2)	4,355	3,995	4,196	4,530	4,330	2,002
BLUEFIELD	1919	1,442	.....	.....	45	.....	59	1,199	121	18
	1914	1,247	(2)	(2)	52	.....	24	15	86	1,070
CHARLESTON	1919	2,259	3	3	512	116	407	974	222	22
	1914	1,081	(2)	(2)	138	12	146	207	528	50
CLARKSBURG	1919	2,321	283	6	1,557	1	236	143	39	56
	1914	316	(2)	(2)	47	9	103	36	63	58
FAIRMONT	1919	1,931	73	35	913	584	131	141	49	5
	1914	1,837	(2)	(2)	103	891	143	460	209	31
HUNTINGTON	1919	6,556	272	141	2,380	972	907	546	1,285	53
	1914	4,641	(2)	(2)	2,537	64	379	333	1,293	35
MARTINSBURG	1919	2,188	.....	.....	152	15	16	1,882	113	10
	1914	1,568	(2)	(2)	9	134	62	1,208	155	.....
MORGANTOWN	1919	1,303	131	201	389	120	91	187	184	.....
	1914	1,470	(2)	(2)	452	319	266	4	424	5
MOUNDSVILLE	1919	1,649	10	574	173	805	23	16	48	.....
	1914	1,508	(2)	(2)	17	823	41	46	59	522
PARKERSBURG	1919	2,878	.....	15	894	110	1,164	542	83	70
	1914	1,820	(2)	(2)	238	.....	1,013	39	496	34
WHEELING	1919	8,622	1,358	16	4,293	864	1,176	284	217	414
	1914	7,920	(2)	(2)	762	1,743	2,019	2,182	1,017	197

[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	2,785	83,036	392	1,425	3,065	484	5,377	182	6,028	109	8,141	121	19,222	43	14,743	21	13,999	8	12,461
Automobile repairing	158	421	14	128	291	16	130	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bone and carbon black	16	242	.....	5	23	7	88	4	131	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bread and other bakery products	146	707	24	86	203	32	344	2	43	2	117	.....	.....	.....	.....	.....	.....	.....	.....
Brick, terra-cotta, and fire-clay products	36	1,032	1	6	14	14	175	8	256	6	385	1	202	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies	38	11,609	.....	4	13	6	78	.....	.....	7	592	8	1,351	5	1,638	5	3,284	3	4,653
Chemicals	7	534	.....	2	3	.....	.....	2	85	1	100	2	346	.....	.....	.....	.....	.....	.....
Clothing, men's	15	917	.....	3	10	5	50	1	30	3	245	3	582	.....	.....	.....	.....	.....	.....
Coke, not including gas-house coke	57	1,283	.....	20	60	21	248	11	359	2	136	3	480	.....	.....	.....	.....	.....	.....
Confectionery and ice cream	75	342	13	39	80	21	216	2	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperage	47	226	3	39	91	2	17	2	55	1	63	.....	.....	.....	.....	.....	.....	.....	.....
Flour-mill and gristmill products	203	371	102	85	145	12	111	4	115	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foundry and machine-shop products	86	1,911	4	31	86	29	305	15	583	3	217	3	371	1	349	.....	.....	.....	.....
Furniture	16	741	4	2	2	.....	.....	4	143	3	251	3	345	.....	.....	.....	.....	.....	.....
Glass	77	11,668	.....	2	7	3	45	13	470	20	1,441	25	3,826	9	2,880	5	2,999	.....	.....
Ice, manufactured	54	372	.....	34	66	17	199	3	107	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iron and steel, blast furnaces	4	417	.....	.....	.....	1	12	.....	.....	.....	.....	3	405	.....	.....	.....	.....	.....	.....
Iron and steel, steel works and rolling mills	20	11,630	.....	.....	.....	.....	.....	1	39	2	155	4	675	5	1,646	5	3,748	3	5,367
Leather, tanned, curried, and finished	17	1,520	2	2	5	1	12	2	95	4	230	5	761	1	417	.....	.....	.....	.....
Lime	9	727	1	3	7	.....	.....	1	30	.....	.....	3	438	1	252	.....	.....	.....	.....
Lumber and timber products	643	12,427	31	426	826	105	1,140	28	839	18	1,387	23	3,388	10	3,376	2	1,471	.....	.....
Lumber, planing-mill products, not including planing mills connected with sawmills	121	1,054	26	56	119	29	358	7	196	2	181	1	200	.....	.....	.....	.....	.....	.....
Mineral and carbonated waters	74	247	10	51	118	12	104	1	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Minerals and earths, ground	19	831	1	4	13	6	94	2	47	5	427	1	250	.....	.....	.....	.....	.....	.....
Paper and wood pulp	9	956	.....	.....	.....	1	12	3	112	3	236	1	144	1	452	.....	.....	.....	.....
Pottery	18	3,445	.....	.....	.....	2	28	2	56	1	61	10	1,588	2	700	.....	.....	1	1,012
Printing and publishing, book and job	71	387	19	35	76	14	161	2	74	1	76	.....	.....	.....	.....	.....	.....	.....	.....
Printing and publishing, newspapers and periodicals	151	952	18	107	272	15	180	8	247	2	149	1	104	.....	.....	.....	.....	.....	.....
Slaughtering and meat packing	10	639	.....	1	1	5	59	2	74	.....	.....	1	211	1	294	.....	.....	.....	.....
Stamped and enameled ware, not elsewhere specified	5	1,233	.....	.....	.....	.....	.....	1	40	1	77	1	188	2	928	.....	.....	.....	.....
Tobacco, cigars and cigarettes	65	1,163	24	24	42	9	89	5	166	.....	.....	2	360	.....	.....	1	506	.....	.....
Woolen and worsted goods	7	542	.....	.....	.....	1	16	2	63	3	253	1	210	.....	.....	.....	.....	.....	.....
All other industries	511	12,490	95	230	492	98	1,106	44	1,502	19	1,362	16	2,797	5	1,811	3	1,991	1	1,429

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

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.
Total for cities	857	31,149	93	365	904	218	2,467	76	2,506	32	2,446	50	7,841	10	3,643	10	6,521	3	4,821
BLUEFIELD	21	1,442	.....	7	14	10	152	3	97	.....	.....	.....	.....	.....	.....	.....	.....	1	1,179
CHARLESTON	106	2,259	10	48	129	28	307	9	309	8	596	2	243	.....	.....	1	675	.....	.....
CLARKSBURG	86	2,321	6	45	114	17	165	10	285	1	79	6	866	.....	.....	1	812	.....	.....
FAIRMONT	62	1,931	7	22	63	19	180	9	319	2	138	1	130	.....	.....	2	1,101	.....	.....
HUNTINGTON	115	6,556	6	38	96	35	444	17	511	6	500	9	1,251	1	411	2	1,130	1	2,213
MARTINSBURG	40	2,188	5	17	42	11	140	3	134	1	100	2	343	.....	.....	.....	.....	1	1,429
MORGANTOWN	61	1,303	6	36	83	10	93	2	74	1	73	6	980	.....	.....	.....	.....	.....	.....
MOUNDSVILLE	50	1,649	14	23	59	7	81	.....	.....	2	115	2	340	1	480	1	574	.....	.....
PARKERSBURG	73	2,878	2	28	73	23	285	7	241	3	260	8	1,367	2	652	.....	.....	.....	.....
WHEELING	243	8,622	37	101	231	58	620	16	536	8	585	14	2,321	6	2,100	3	2,229	.....	.....

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	2,785	2,749	2,586	83,036	71,078	63,893	$471,970,877	$193,511,782	$161,949,526	$201,030,281	$83,478,617	$69,071,538
Less than $5,000	755	1,166	1,082	569	1,767	1,988	1,815,928	2,644,911	2,548,624	1,178,507	1,890,714	1,734,907
$5,000 to $20,000	869	786	759	2,449	4,107	4,240	9,372,762	8,031,347	7,566,470	5,117,787	4,644,685	4,352,873
$20,000 to $100,000	649	488	462	6,850	10,082	10,384	28,916,989	22,485,402	21,017,729	13,812,499	11,464,927	10,417,819
$100,000 to $500,000	340	220	250	20,239	35,227	32,553	81,611,784	46,805,793	68,334,808	43,908,546	40,266,968	33,764,126
$500,000 to $1,000,000	78	46		11,440			54,130,850	32,343,940		27,409,742		
$1,000,000 and over	94	43	33	41,489	19,895	14,728	296,122,564	81,200,389	62,481,895	109,603,200	25,301,323	18,801,813
	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	27.1	42.4	41.8	0.7	2.5	3.1	0.4	1.4	1.6	0.6	2.2	2.5
$5,000 to $20,000	31.2	28.6	29.4	2.9	5.8	6.6	2.0	4.2	4.7	2.5	5.6	6.3
$20,000 to $100,000	23.3	17.8	17.9	8.2	14.2	16.3	6.1	11.6	13.0	6.9	13.7	15.1
$100,000 to $500,000	12.2	8.0	9.7	24.4	49.6	50.9	17.3	24.2	42.2	21.8	48.2	48.9
$500,000 to $1,000,000	2.8	1.7		13.8			11.5	16.7		13.6		
$1,000,000 and over	3.4	1.6	1.3	50.0	28.0	23.1	62.7	42.0	38.6	54.5	30.3	27.2

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	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
BREAD AND OTHER BAKERY PRODUCTS	146	138	100.0	100.0	707	569	100.0	100.0	$6,879,183	$2,305,438	100.0	100.0	$2,103,935	$978,283	100.0	100.0
Less than $5,000	22	51	15.1	37.0	4	49	0.6	8.6	73,157	131,954	1.1	5.7	31,673	61,475	1.5	6.3
$5,000 to $20,000	49	54	33.6	39.1	70	163	9.9	28.6	559,112	604,663	8.1	26.2	198,877	285,749	9.5	29.2
$20,000 to $100,000	57	[1] 33	39.0	23.9	278	[1] 357	39.3	62.7	2,535,399	[1] 1,568,821	36.9	68.0	770,448	[1] 631,059	36.6	64.5
$100,000 and over	18	.....	12.3	.....	355	.....	50.2	.....	3,711,515	.....	54.0	.....	1,102,937	.....	52.4	.....
COKE, NOT INCLUDING GAS-HOUSE COKE	57	54	100.0	100.0	1,283	1,392	100.0	100.0	8,368,698	2,977,526	100.0	100.0	2,331,460	1,084,110	100.0	100.0
Less than $20,000	17	11	29.8	20.4	57	92	4.4	6.6	203,722	143,993	2.4	4.8	72,001	44,820	3.1	4.1
$20,000 to $100,000	22	37	38.6	68.5	235	968	18.3	69.5	1,206,495	1,961,313	14.4	65.9	421,272	732,378	18.1	67.6
$100,000 to $500,000	14	6	24.6	11.1	435	332	33.9	23.9	2,778,168	872,220	33.2	29.3	770,499	306,912	33.0	28.3
$500,000 and over	4	.....	7.0	.....	556	.....	43.3	.....	4,180,313	.....	50.0	.....	1,067,688	.....	45.8	.....
FLOUR-MILL AND GRISTMILL PRODUCTS	203	229	100.0	100.0	371	381	100.0	100.0	13,076,542	7,052,814	100.0	100.0	2,546,113	1,124,386	100.0	100.0
Less than $5,000	27	64	13.3	27.9	2	27	0.5	7.1	72,278	183,312	0.6	2.6	15,661	45,573	0.6	4.1
$5,000 to $20,000	72	100	35.5	43.7	23	96	6.2	25.2	886,711	1,082,202	6.8	15.3	183,813	239,736	7.2	21.3
$20,000 to $100,000	83	54	40.9	23.6	111	142	29.9	37.3	3,410,329	2,199,466	26.1	31.2	686,532	429,825	27.0	38.2
$100,000 to $500,000	16	[2] 11	7.9	4.8	121	[2] 116	32.6	30.4	3,465,215	[2] 3,587,834	26.5	[2] 50.9	639,845	[2] 409,252	25.1	36.4
$500,000 and over	5	.....	2.5	.....	114	.....	30.7	.....	5,242,009	.....	40.1	.....	1,020,262	.....	40.1	.....
FOUNDRY AND MACHINE-SHOP PRODUCTS [3]	91	81	100.0	100.0	1,941	1,678	100.0	100.0	14,773,458	4,598,487	100.0	100.0	7,874,761	2,140,578	100.0	100.0
Less than $5,000	7	25	7.7	30.9	4	50	0.2	3.0	13,283	61,913	0.1	1.3	8,562	38,616	0.1	1.8
$5,000 to $20,000	32	25	35.2	30.9	118	111	6.1	6.6	356,982	255,798	2.4	5.6	231,536	175,957	2.9	8.2
$20,000 to $100,000	31	22	34.1	27.2	396	378	20.4	22.5	1,346,340	1,061,115	9.1	23.1	802,849	576,558	10.2	26.9
$100,000 to $500,000	17	[4] 9	18.7	11.1	842	[4] 1,139	43.4	67.9	4,167,822	[4] 3,219,661	28.2	70.0	2,321,189	[4] 1,349,447	29.5	63.0
$500,000 and over	4	.....	4.4	.....	581	.....	29.9	.....	8,889,031	.....	60.2	.....	4,510,625	.....	57.3	.....
GLASS	77	63	100.0	100.0	11,668	8,889	100.0	100.0	42,730,338	14,631,171	100.0	100.0	28,928,904	9,993,030	100.0	100.0
$5,000 to $20,000	3	[5] 6	3.9	9.5	20	[5] 36	0.2	0.4	44,650	[5] 31,888	0.1	0.2	29,082	[5] 19,572	0.1	0.2
$20,000 to $100,000	9	12	11.7	19.0	377	483	3.2	5.4	648,821	658,968	1.5	4.5	437,358	453,059	1.5	4.5
$100,000 to $500,000	41	39	53.2	61.9	3,930	[2] 8,370	33.7	94.2	10,567,932	8,097,033	24.7	55.3	7,777,895	[2] 9,520,399	26.9	95.3
$500,000 to $1,000,000	12	[6] 6	15.6	9.5	2,300	.....	19.7	.....	7,813,949	[6] 5,843,282	18.3	39.9	5,251,960	.....	18.2	.....
$1,000,000 and over	12	.....	15.6	.....	5,041	.....	43.2	.....	23,654,986	.....	55.4	.....	15,432,609	.....	53.3	.....
LUMBER AND TIMBER PRODUCTS	643	858	100.0	100.0	12,427	16,091	100.0	100.0	34,419,523	23,857,793	100.0	100.0	25,867,564	17,589,624	100.0	100.0
Less than $5,000	265	526	41.2	61.3	276	904	2.2	5.6	622,069	1,079,747	1.8	4.5	474,935	855,443	1.8	4.9
$5,000 to $20,000	212	202	33.0	23.5	790	1,438	6.4	8.9	2,133,956	1,983,665	6.2	8.3	1,591,019	1,556,583	6.2	8.8
$20,000 to $100,000	105	74	16.3	8.6	1,599	2,354	12.9	14.6	4,161,117	3,356,640	12.1	14.1	3,106,417	2,471,688	12.0	14.1
$100,000 to $500,000	47	46	7.3	5.4	4,945	[2] 11,395	39.8	70.8	12,845,771	9,314,007	37.3	39.0	9,711,635	[2] 12,705,910	37.5	72.2
$500,000 to $1,000,000	8	[6] 10	1.2	1.2	1,977	.....	15.9	.....	5,686,583	[6] 8,123,734	16.5	34.1	4,389,224	.....	17.0	.....
$1,000,000 and over	6	.....	0.9	.....	2,840	.....	22.9	.....	8,970,027	.....	26.1	.....	6,594,334	.....	25.5	.....
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS	121	124	100.0	100.0	1,054	1,153	100.0	100.0	10,909,224	4,660,745	100.0	100.0	3,215,555	1,653,233	100.0	100.0
Less than $5,000	31	44	25.6	35.5	11	39	1.0	3.4	66,686	112,099	0.6	2.4	36,113	59,604	1.1	3.6
$5,000 to $20,000	36	31	29.8	25.0	65	162	6.2	14.1	377,865	326,398	3.5	7.0	169,329	137,233	5.3	8.3
$20,000 to $100,000	31	38	25.6	30.6	237	517	22.5	44.8	1,762,698	2,166,678	16.2	46.5	528,526	802,610	16.4	48.5
$100,000 to $500,000	19	11	15.7	8.9	330	435	31.3	37.7	3,598,981	2,055,570	33.0	44.1	913,593	653,786	28.4	39.5
$500,000 and over	4	.....	3.3	.....	411	.....	39.0	.....	5,102,994	.....	46.8	.....	1,567,994	.....	48.8	.....
POTTERY	18	15	100.0	100.0	3,445	3,339	100.0	100.0	10,111,742	4,821,302	100.0	100.0	7,073,682	3,161,909	100.0	100.0
Less than $100,000	4	6	22.2	40.0	84	203	2.4	6.1	182,901	229,318	1.8	4.8	124,436	177,400	1.8	5.6
$100,000 to $500,000	6	5	33.3	33.3	810	[2] 3,136	23.5	93.9	2,265,396	1,108,457	22.4	23.0	1,663,961	[2] 2,984,509	23.5	94.4
$500,000 to $1,000,000	5	[6] 4	27.8	26.7	963	.....	28.0	.....	3,030,144	[6] 3,483,527	30.0	72.3	2,174,817	.....	30.7	.....
$1,000,000 and over	3	.....	16.7	.....	1,588	.....	46.1	.....	4,633,301	.....	45.8	.....	3,110,468	.....	44.0	.....
TOBACCO, CIGARS AND CIGARETTES	65	90	100.0	100.0	1,163	1,322	100.0	100.0	4,074,732	2,446,395	100.0	100.0	2,366,309	1,643,232	100.0	100.0
Less than $5,000	37	62	56.9	68.9	17	80	1.5	6.1	71,379	134,647	1.8	5.5	40,573	90,178	1.7	5.5
$5,000 to $20,000	14	21	21.5	23.3	48	128	4.1	9.7	113,046	196,432	2.8	8.0	63,567	138,643	2.7	8.4
$20,000 to $1,000,000	10	[2] 7	15.4	7.8	194	[2] 1,114	16.7	84.3	446,710	[2] 2,115,316	11.0	86.5	222,918	[2] 1,414,411	9.4	86.1
$100,000 and over	4	.....	6.2	.....	904	.....	77.7	.....	3,443,597	.....	84.5	.....	2,039,251	.....	86.2	.....

[1] Includes the group "$100,000 to $500,000."
[2] Includes the groups "$500,000 to $1,000,000" and "$1,000,000 and over."
[3] Includes "iron and steel, welding."
[4] Includes the group "$500,000 to $1,000,000."
[5] Includes the group "Less than $5,000."
[6] Includes the group "$1,000,000 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.
BLUEFIELD	21	1,442	100.0	$5,797,475	100.0	$2,447,026	100.0
Less than $20,000	8	21	1.5	80,881	1.4	56,[illegible]03	2.3
$20,000 to $100,000	7	137	9.5	451,760	7.8	221,081	9.0
$100,000 and over	6	1,284	89.0	5,264,834	90.8	2,169,542	88.7
CHARLESTON	106	2,259	100.0	13,872,624	100.0	6,843,329	100.0
Less than $5,000	13	4	0.2	26,882	0.2	17,651	0.3
$5,000 to $20,000	31	85	3.8	360,858	2.6	225,516	3.3
$20,000 to $100,000	34	262	11.6	1,390,017	10.0	673,826	9.8
$100,000 to $500,000	21	713	31.6	4,478,284	32.3	2,015,832	29.5
$500,000 and over	7	1,195	52.9	7,616,553	54.9	3,910,471	57.1
CLARKSBURG	86	2,321	100.0	11,881,831	100.0	6,950,559	100.0
Less than $5,000	9	4	0.2	24,505	0.2	16,408	0.2
$5,000 to $20,000	36	89	3.8	375,822	3.2	232,803	3.3
$20,000 to $100,000	21	257	11.1	1,142,796	9.6	613,405	8.8
$100,000 to $500,000	13	433	18.7	2,375,596	20.0	1,269,133	18.3
$500,000 and over	7	1,538	66.3	7,963,112	67.0	4,818,810	69.3
FAIRMONT	62	1,931	100.0	8,278,398	100.0	4,449,719	100.0
Less than $5,000	12	9	0.5	26,699	0.3	18,651	0.4
$5,000 to $20,000	13	43	2.2	170,[illegible]25	2.1	90,448	2.0
$20,000 to $100,000	22	269	13.9	1,142,851	13.8	586,189	13.2
$100,000 and over	15	1,610	83.4	6,938,[illegible]23	83.8	3,754,[illegible]31	84.4
HUNTINGTON	115	6,556	100.0	37,707,241	100.0	15,992,888	100.0
Less than $5,000	14	10	0.2	37,974	0.1	19,901	0.1
$5,000 to $20,000	24	93	1.4	228,894	0.6	108,749	0.7
$20,000 to $100,000	38	451	6.9	1,917,215	5.1	985,623	6.2
$100,000 to $500,000	26	1,285	19.6	6,804,164	18.0	3,013,013	19.0
$500,000 to $1,000,000	6	588	9.0	3,689,563	9.8	1,891,606	11.8
$1,000,000 and over	7	4,129	63.0	25,038,431	66.4	9,913,996	62.2
MARTINSBURG	40	2,188	100.0	$9,003,301	100.0	$3,465,995	100.0
Less than $5,000	9	6	0.3	24,580	0.3	17,187	0.5
$5,000 to $20,000	8	13	0.6	83,288	0.9	58,476	1.7
$20,000 to $100,000	12	113	5.2	591,360	6.6	288,862	8.3
$100,000 to $500,000	6	143	6.5	1,141,744	12.7	328,241	9.5
$500,000 and over	5	1,913	87.4	7,159,329	79.5	2,773,229	80.0
MORGANTOWN	61	1,303	100.0	4,643,456	100.0	2,838,441	100.0
Less than $5,000	16	11	0.8	44,323	1.0	28,027	1.0
$5,000 to $20,000	16	36	2.8	169,128	3.6	79,527	2.8
$20,000 to $100,000	20	144	11.1	800,506	17.2	379,533	13.4
$100,000 and over	9	1,112	85.3	3,629,499	78.2	2,351,354	82.8
MOUNDSVILLE	59	1,649	100.0	6,772,8[illegible]8	100.0	3,007,050	100.0
Less than $5,000	9	1	0.1	20,569	0.3	11,094	0.4
$5,000 to $20,000	15	25	1.5	156,909	2.3	71,036	2.4
$20,000 to $100,000	18	169	10.2	691,975	10.3	255,702	8.5
$100,000 to $500,000	4	60	3.6	725,441	10.7	243,295	8.1
$500,000 and over	4	1,394	84.5	5,174,954	76.4	2,425,923	80.7
PARKERSBURG	73	2,878	100.0	24,056,134	100.0	9,188,746	100.0
Less than $5,000	6	5	0.2	18,357	0.1	12,909	0.1
$5,000 to $20,000	20	64	2.2	247,315	1.0	110,583	1.2
$20,000 to $100,000	20	213	7.4	941,463	3.9	474,903	5.2
$100,000 to $500,000	17	865	30.1	3,607,894	15.0	1,922,997	20.9
$500,000 to $1,000,000	6	960	33.4	4,693,689	19.5	2,401,996	26.2
$1,000,000 and over	4	771	26.8	14,517,416	60.5	4,262,358	46.4
WHEELING	243	8,622	100.0	72,639,728	100.0	26,330,679	100.0
Less than $5,000	54	22	0.3	128,358	0.2	79,286	0.3
$5,000 to $20,000	60	140	1.6	617,586	0.8	344,719	1.3
$20,000 to $100,000	74	752	8.7	3,359,178	4.6	1,451,331	5.5
$100,000 to $500,000	32	1,438	16.7	7,705,881	10.6	3,625,013	13.8
$500,000 to $1,000,000	9	1,400	16.2	5,662,416	7.8	2,891,463	10.9
$1,000,000 and over	14	4,870	56.5	55,166,309	75.9	17,968,867	68.2

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	1,199	1,021	565	83,036	3,578	75,883	3,575	4.3	91.4	4.3	$471,970,877	$19,982,517	$428,213,176	$23,775,184	4.2	90.7	5.0
	1914	1,304	905	540	71,078	5,060	62,436	3,582	7.1	87.8	5.0	193,511,782	11,258,657	171,832,947	10,420,178	5.8	88.8	5.4
	1909	1,188	813	585	63,893	6,113	53,306	4,474	9.6	83.4	7.0	161,949,526	11,086,973	140,385,264	10,477,289	6.8	86.7	6.5
Bread and other bakery products.	1919	105	17	24	707	351	268	88	49.6	37.9	12.4	6,879,183	3,497,490	2,695,033	686,660	50.8	39.2	10.0
	1914	114	7	17	569	331	135	103	58.2	23.7	18.1	2,305,438	1,301,367	630,714	370,357	56.6	27.4	16.1
Coke, not including gas-house coke.	1919	.....	57	.....	1,283	.....	1,283	.....	.....	100.0	.....	8,368,698	.....	8,368,698	.....	.....	100.0	.....
	1914	.....	54	.....	1,392	.....	1,392	.....	.....	100.0	.....	2,977,526	.....	2,977,526	.....	.....	100.0	.....
Flour-mill and gristmill products.	1919	96	39	68	371	75	272	24	20.2	73.3	6.5	13,076,542	2,691,841	8,622,165	1,762,536	20.6	65.9	13.5
	1914	112	41	76	381	101	200	80	26.5	52.5	21.0	7,052,814	1,391,957	4,666,226	994,631	19.7	66.2	14.1
Foundry and machine-shop products.[1]	1919	23	51	17	1,941	179	1,650	112	9.2	85.0	5.8	14,773,458	1,095,111	12,622,232	1,056,115	7.4	85.4	7.1
	1914	22	42	17	1,678	80	1,505	93	4.8	89.7	5.5	4,598,487	221,965	4,037,280	339,242	4.8	87.8	7.4
Glass	1919	3	69	5	11,668	61	11,163	444	0.5	95.7	3.8	42,730,338	148,923	41,659,569	921,846	0.3	97.5	2.2
	1914	5	54	4	8,889	49	8,551	289	0.6	96.2	3.3	14,631,171	48,038	14,283,733	299,400	0.3	97.6	2.0
Lumber and timber products.	1919	360	100	183	12,427	1,197	9,419	1,811	9.6	75.8	14.6	34,419,523	3,153,511	27,031,925	4,234,087	9.2	78.5	12.3
	1914	538	106	214	16,091	2,081	12,190	1,820	12.9	75.8	11.3	23,857,793	2,655,797	17,743,417	3,458,579	11.1	74.4	14.5
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	49	48	24	1,054	110	892	52	10.4	84.6	4.9	10,909,224	879,651	9,556,017	473,556	8.1	87.6	4.3
	1914	59	43	22	1,153	215	871	67	18.6	75.5	5.8	4,660,745	881,188	3,601,179	178,378	18.9	77.3	3.8
Pottery	1919	1	17	.....	3,445	.....	[2] 3,445	.....	.....	100.0	.....	10,111,742	.....	[2] 10,111,742	.....	.....	100.0	.....
	1914	.....	15	.....	3,339	.....	3,339	.....	.....	100.0	.....	4,821,302	.....	4,821,302	.....	.....	100.0	.....
Tobacco, cigars and cigarettes.	1919	46	10	9	1,163	141	930	92	12.1	80.0	7.9	4,074,732	464,990	3,394,232	215,510	11.4	83.3	5.3
	1914	73	6	11	1,322	866	412	44	65.5	31.2	3.3	2,446,395	1,611,515	762,535	72,345	65.9	31.2	3.0

[1] Includes "iron and steel, welding."

[2] Includes the group "Individuals."

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

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.
Total for cities	1919	322	408	127	31,149	1,332	28,963	854	4.3	93.0	2.7	194,653,036	$8,623,944	$171,213,671	$14,815,421	4.4	88.0	7.6
	1914	283	328	94	23,408	1,805	20,830	764	7.7	89.0	3.3	67,321,100	4,780,505	59,068,436	3,472,159	7.1	87.7	5.2
BLUEFIELD	1919	5	14	2	1,442	[3] 31	1,411	.....	2.1	97.9	.....	5,797,475	[3] 231,056	5,566,419	.....	4.0	96.0	.....
	1914	8	16	.....	1,247	37	1,210	.....	3.0	97.0	.....	2,173,008	127,853	2,045,155	.....	5.9	94.1	.....
CHARLESTON	1919	35	52	19	2,259	137	2,036	86	6.1	90.1	3.8	13,872,624	914,225	12,302,960	655,439	6.6	88.7	4.7
	1914	29	48	12	1,081	69	951	61	6.4	88.0	5.6	3,699,447	284,093	3,202,889	212,465	7.7	86.6	5.7
CLARKSBURG	1919	23	49	14	2,321	65	2,216	40	2.8	95.5	1.7	11,881,831	440,050	10,984,264	457,517	3.7	92.4	3.9
	1914	18	19	6	316	88	176	52	27.8	55.7	16.5	1,653,859	289,115	1,183,113	181,631	17.5	71.5	11.0
FAIRMONT	1919	23	31	8	1,931	98	1,789	44	5.1	92.6	2.3	8,278,398	509,842	7,555,374	213,182	6.2	91.3	2.6
	1914	20	25	5	1,837	80	1,728	29	4.4	94.1	1.6	4,383,674	170,075	4,156,361	57,238	3.9	94.8	1.3
HUNTINGTON	1919	37	67	11	6,556	203	6,221	132	3.1	94.9	2.0	37,707,241	1,316,839	35,982,685	407,717	3.5	95.4	1.1
	1914	41	51	10	4,641	224	4,365	52	4.8	94.1	1.1	11,400,468	575,277	10,723,242	101,949	5.0	94.1	0.9
MARTINSBURG	1919	20	12	8	2,188	129	1,989	70	5.9	90.9	3.2	9,003,301	1,362,071	7,297,273	343,957	15.1	81.1	3.8
	1914	16	12	9	1,568	75	1,434	59	4.8	91.5	3.8	3,021,938	293,462	2,509,260	219,216	9.7	83.0	7.3
MORGANTOWN	1919	25	26	10	1,303	38	1,245	20	2.9	95.5	1.5	4,643,456	247,533	4,189,517	206,406	5.3	90.2	4.4
	1914	21	19	9	1,470	34	1,420	16	2.3	96.6	1.1	2,337,990	189,843	2,080,396	67,751	8.1	89.0	2.9
MOUNDSVILLE	1919	18	15	17	1,649	107	1,501	41	6.5	91.0	2.5	6,772,848	408,054	5,721,713	643,081	6.0	84.5	9.5
	1914	13	8	6	1,508	60	1,407	41	4.0	93.3	2.7	3,628,793	549,009	1,650,903	1,428,881	15.1	45.5	39.4
PARKERSBURG	1919	27	38	8	2,878	141	2,669	68	4.9	92.7	2.4	24,056,134	846,038	22,274,767	935,329	3.5	92.6	3.9
	1914	29	42	12	1,820	103	1,571	146	5.7	86.3	8.0	7,142,990	292,660	6,460,221	390,109	4.1	90.4	5.5
WHEELING	1919	107	104	32	8,622	383	7,886	353	4.4	91.5	4.1	72,639,728	2,348,236	59,338,699	10,952,793	3.2	81.7	15.1
	1914	88	88	25	7,920	1,035	6,577	308	13.1	83.0	3.9	27,878,933	2,009,118	25,056,896	812,919	7.2	89.9	2.9

[3] Includes the group "All others."

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.			
			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	.....	10	.....	6	.....	4	.....	.....	.....
	1914	.....	10	.....	7	.....	3	.....	.....	.....
	1909	.....	6	.....	4	.....	2	.....	.....	.....
Population [1]	1920	1,463,701	262,356	17.9	88,494	6.0	173,862	11.9	1,201,345	82.1
	1915	1,332,910	206,122	15.5	94,087	7.1	112,035	8.4	1,126,788	84.5
	1910	1,221,119	135,526	11.1	62,724	5.1	72,802	6.0	1,085,593	88.9
Number of establishments	1919	2,785	857	30.8	307	11.0	550	19.7	1,928	69.2
	1914	2,749	705	25.6	313	11.4	392	14.3	2,044	74.4
	1909	2,586	435	16.8	192	7.4	243	9.4	2,151	83.2
Average number of wage earners	1919	83,036	31,149	37.5	11,391	13.7	19,758	23.8	51,887	62.5
	1914	71,078	23,408	32.9	9,766	13.7	13,642	19.2	47,670	67.1
	1909	63,893	15,501	24.3	4,536	7.1	10,965	17.2	48,392	75.7
Value of products	1919	$471,970,877	$194,653,036	41.2	$58,551,612	12.4	$136,101,424	28.8	$277,317,841	58.8
	1914	193,511,782	67,321,100	34.8	24,342,252	12.6	42,978,848	22.2	126,190,682	65.2
	1909	161,949,526	46,302,723	28.6	12,714,312	7.9	33,588,411	20.7	115,646,803	71.4
Value added by manufacture	1919	201,030,281	81,514,432	40.5	25,396,977	12.6	56,117,455	27.9	119,515,849	59.5
	1914	83,478,617	29,399,155	35.2	11,342,784	13.6	18,056,371	21.6	54,079,462	64.8
	1909	69,071,538	19,032,710	27.6	4,851,460	7.0	14,181,250	20.5	50,038,828	72.4

[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.—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	8,145	5,338	4,527	328,653	278,504	217,496	100.0	100.0	100.0
Owned	3,005	3,294	4,078	265,538	251,067	211,913	80.8	90.1	97.4
Steam	1,878	2,369	3,336	217,155	216,976	184,591	66.1	77.9	84.9
Engines	1,808	(1)	(1)	172,113	(1)	(1)	52.4	.....	.....
Turbines	70	(1)	(1)	45,042	(1)	(1)	13.7	.....	.....
Internal-combustion engines	779	779	574	38,972	28,537	16,705	11.9	10.2	7.7
Water	348	146	168	9,411	5,554	10,617	2.9	2.0	4.8
Water wheels and turbines	332	130	143	7,810	5,381	10,546	2.4	1.9	4.8
Water motors	16	16	25	1,601	173	71	0.5	0.1	(2)
Rented	5,140	2,044	449	63,115	27,437	5,583	19.2	9.9	2.6
Electric	5,140	2,044	449	62,917	27,152	5,330	19.1	9.8	2.5
Other	.....	.....	.....	198	285	253	0.1	0.1	0.1
Electric	10,246	4,678	1,715	155,224	66,676	28,543	100.0	100.0	100.0
Rented	5,140	2,044	449	62,917	27,152	5,330	40.5	40.7	18.7
Generated by establishments reporting	5,106	2,634	1,266	92,307	39,524	23,213	59.5	59.3	81.3

[1] Not reported separately.

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

TABLE 17.—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	66,558	4,007,630	341,030	34,645	6,106	48,247,718
1914	63,096	3,564,398	208,374	18,221	(1)	51,808,846
Per cent of increase [2]	5.6	12.4	63.7	1,236	.....	−6.9
Bone and carbon black	.....	.....	.....	.....	.....	23,625,328
Brick, terra-cotta, and fire-clay products	254	86,159	.....	6	2	929,973
Cars and general shop construction and repairs by steam-railroad companies	.....	144,142	697	3,327	41	815,677
Cement	.....	26,291	.....	.....	185	.....
Chemicals	.....	13,157	3,670	30	.....	1,426,405
Coke, not including gas-house coke	.....	2,242,720	.....	.....	.....	.....
Foundry and machine-shop products	54	6,987	7,676	205	266	312,133
Glass	.....	71,296	79	4,187	7	11,832,115
Ice, manufactured	.....	31,989	.....	3	111	672,533
Iron and steel, blast furnaces	.....	10,604	277,977	.....	.....	75,647
Iron and steel, steel works and rolling mills	.....	727,378	22,614	12,852	296	2,168,761
Leather, tanned, curried, and finished	10	64,716	.....	.....	.....	7,215
Lime	.....	54,388	18,688	.....	.....	629
Lumber and timber products	1,796	96,232	.....	18	197	3,776
Paper and wood pulp	.....	102,601	.....	.....	.....	11,373
Petroleum, refining	.....	21,932	.....	9,441	.....	1,628,446
Pottery	.....	27,377	.....	16	15	2,263,364
Smelting and refining, zinc	50,797	86,157	5,332	.....	4	5,795
All other industries	7,647	193,504	4,297	4,470	4,981	2,468,577
Total for cities	14,636	403,175	100,191	17,531	1,462	11,410,262
BLUEFIELD	.....	25,047	290	22	226	194
CHARLESTON	12	758	1,123	.....	179	1,182,447
CLARKSBURG	1	7,439	219	2,521	42	2,413,712
FAIRMONT	.....	34,551	700	1,543	10	458,510
HUNTINGTON	.....	12,303	3,304	5	105	3,063,283
MARTINSBURG	678	14,976	322	1,946	217	2,097
MORGANTOWN	.....	7,712	576	60	7	1,270,113
MOUNDSVILLE	7,880	81,162	116	1,053	4	437,711
PARKERSBURG	208	23,057	1,268	9,443	181	1,200,064
WHEELING	5,857	196,164	92,282	928	488	1,381,831

[1] Included in figures for fuel oils.

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

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 six of these industries for West Virginia are here presented.

Iron and steel, blast furnaces, and steel works and rolling mills: Blast furnaces.—The total value of products for the industry was $6,411,939. The pig-iron output of the state was 251,751 tons, valued at $6,303,480, of which approximately three-fourths was for producers' consumption.

Steel works and rolling mills (Table 18).—The state ranked sixth among the states in this industry in 1919, with 3 per cent of the total value of products for the industry in 1919, and 2.3 per cent in 1914 and 1909.

Plates and sheets constituted 44.3 per cent of the total tonnage of rolled, forged, and classified products in 1919 (black plates for tinning 30.6 per cent, and other plates and sheets 13.7 per cent) as compared with 53.2 per cent in 1919 and 1914: and skelp 22.7 per cent in 1919 and 20.1 per cent in 1914.

TABLE 18.—STEEL WORKS AND ROLLING MILLS: 1919, 1914, AND 1909.

KIND.	1919	1914	1909
Total value of products	$85,036,480	$21,185,559	$22,435,411
Rolled, forged, and other classified products:			
Tons (gross)	829,173	566,252	609,022
Value	$62,143,716	$19,610,516	$20,069,576
Black plates for tinning—			
Tons	253,343	200,825	111,152
Value	$21,965,666	$8,803,540	$4,887,291
Other plates and sheets—			
Tons	113,950	100,277	98,322
Value	$11,077,873	$4,305,709	$4,349,096
Skelp—			
Tons	188,130	114,020	201,794
Value	$10,043,185	$3,013,905	$6,060,225
All other—			
Tons	273,750	151,130	197,754
Value	$19,056,992	$3,487,362	$4,772,964
Miscellaneous iron and steel products, including scrap sold and value added to rolling-mill products by further manufacture, value	$22,652,798	$1,483,988	$2,209,563
All other products, value	$239,975	$91,055	$156,272

Tin plate and terneplate (Table 19).—The statistics include the output of the tin dipping departments of black-plate rolling mills as well as that of establishments that purchased the black plates. The classified industry, however, does not include the tin dipping departments of rolling mills. In 1914 and at prior censuses, separate reports were secured for the tin dipping departments on the basis of independently operated establishments. West Virginia ranks second among the states in tin-plate and terneplate production, being exceeded only by Pennsylvania.

TABLE 19.—TIN PLATE AND TERNEPLATE, INCLUDING THE DIPPING DEPARTMENTS OF BLACK-PLATE ROLLING MILLS: 1919, 1914, AND 1909.

KIND.	1919	1914	1909
PRINCIPAL MATERIALS.			
Black plates or sheets:			
Pounds	575,188,787	420,367,239	254,685,445
Cost	$15,907,533	$7,855,440	$5,039,683
Pig tin:			
Pounds	6,799,254	5,831,235	4,663,663
Cost	$3,867,682	$2,295,177	$1,370,502
Pig lead:			
Pounds	481,022	1,107,986	935,148
Cost	$28,351	$46,196	$40,248
Terne mixture, purchased:			
Pounds	6,760,082	5,252,717	2,328,903
Cost	$1,356,006	$621,605	$259,225
PRODUCTS.			
Total value	$36,712,857	$15,130,551	$9,257,524
Tin plate and terneplate:			
Pounds	508,864,050	417,861,666	257,807,156
Value	$35,726,707	$14,758,408	$8,922,099
Tin plate—			
Pounds	398,435,834	303,561,325	189,239,233
Value	$28,146,242	$10,530,194	$6,360,880
Terneplate—			
Pounds	110,428,216	114,300,341	68,567,923
Value	$7,580,465	$4,228,214	$2,561,219
All other products, value	$986,150	$372,143	$335,425
EQUIPMENT.			
Tin-plate and terneplate dipping sets:			
Number	160	150	99
Daily capacity, single turn....pounds	877,000	788,000	472,000

Glass (Table 20).—In 1919 the value of building glass manufactured in West Virginia increased 245 per cent as compared with 1914. The value of pressed and blown glass increased 106.6 per cent, and of bottles and jars, 246 per cent, during the same period. In 1919 the state produced 65.7 per cent of the jelly glasses, tumblers, and goblets, and 43.7 per cent of the stem ware made in the United States.

TABLE 20.—GLASS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$42,730,338	$14,631,171	$7,779,483
Building glass	15,217,616	4,410,710	2,751,133
Pressed and blown glass	12,943,426	6,263,554	4,306,528
Bottles and jars	13,069,308	3,777,445	646,521
All other products	1,499,988	179,462	75,301

Lumber and timber products (Table 21).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. West Virginia ranked third among the states in the production of hardwood lumber in 1919, and seventeenth in the output from all species.

The period of greatest activity in this industry was from 1907 to 1916 and for those years the an-

nual production of lumber exceeded one billion feet. The greatest output of record was in 1909 for which year data are shown in the table. The cut for 1919 decreased 31.8 per cent, compared with that for 1914, and 48.2 per cent, compared with that for 1909.

In 1919 West Virginia led in the production of lumber from chestnut and yellow poplar, contributing 21.6 per cent and 19.4 per cent, respectively, of the total cut of these woods in the United States.

The lumber cut from the principal species in 1919 was reported as follows: Oak 279,891,000 feet, or 36.7 per cent of the total cut from all species in the state; chestnut 118,087,000 feet, or 15.5 per cent; hemlock 104,582,000 feet, or 13.7 per cent; yellow poplar 63,827,000 feet, or 8.4 per cent; maple 58,242,000 feet, or 7.6 per cent; and spruce 50,414,000 feet, or 6.6 per cent. Other important woods sawed into lumber in considerable quantities were beech, basswood, hickory, birch, yellow pine, ash, gum, cherry, white pine and tupelo.

TABLE 21.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY.[1]		
	1919	1914	1909
Lumber.....M feet b. m..	763,103	1,118,480	1,472,942
Lath.....thousands..	22,005	(2)	150,820
Shingles.....thousands..	120	(2)	6,829

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

Leather, tanned, curried, and finished (Table 22).—This table shows the kind, quantity, and value of leather produced during 1919, 1914, and 1909.

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

KIND.	1919	1914	1909
Total value.....	$23,827,131	$11,014,540	$12,450,592
Sole leather:			
Union—			
Sides.....	1,247,273	1,426,584	1,933,037
Value.....	$13,864,736	$9,035,266	$10,276,164
Oak—			
Sides.....	544,523		
Value.....	$6,564,352		
Harness, belting, and rough leather, value..	$2,508,614	$1,647,185	$1,617,354
All other leather, value.....	$57,840	$5,677	$4,356
All other products, including amount received for work done for others, value....	$831,589	$326,412	$552,718

Sole leather represented 85.5 per cent of the value of all products of the industry in the state in 1919, as compared with 82 per cent in 1914, and 82.5 per cent in 1909. There were 17 tanneries in operation in 1919. Eight of these produced sole leather exclusively and four others in part. The kinds of sole leather produced in 1914 and 1909 are not shown separately, because it would disclose the operations of individual establishments. Harness, belting, and rough leather are combined for the same reason.

Flour-mill and gristmill products (Table 23).—Wheat flour was the product of chief value in 1919 as in 1914, forming 50.8 per cent and 38.7 per cent, respectively, of the total value of products of the industry. The value of feed and offal was second in importance, having a small decrease in 1919 as in 1914, its percentage of the total value being 15 per cent and 33.9 per cent, respectively.

TABLE 23.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	$13,076,542	$7,052,814	$7,695,801
Wheat flour:			
Barrels.....	585,918	520,949	634,132
Value.....	$6,645,431	$2,732,789	$3,615,913
Buckwheat flour:			
Pounds.....	2,735,765	3,680,671	4,497,690
Value.....	$169,891	$113,953	$120,061
Corn meal and corn flour:			
Barrels.....	238,070	233,582	318,293
Value.....	$1,922,416	$775,034	$986,375
Bran and middlings:			
Tons.....	33,009	20,111	101,533
Value.....	$1,859,818	$570,897	$2,931,742
Feed and offal:			
Tons.....	31,410	82,677	
Value.....	$1,964,654	$2,392,851	
All other cereal products, value.....	$483,740	$467,290	$41,710
All other products, value.....	$30,592		

Laundries (Table 24).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 24, however, summarizes the statistics for such laundries in the state of West Virginia for 1919 and 1914.

TABLE 24.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1914–1919.
	1919	1914	
Number of establishments.....	44	44	.....
Persons engaged.....	1,057	929	13.8
Proprietors and firm members.....	50	35	.....
Salaried employees.....	87	67	.....
Wage earners (average number).....	920	827	11.2
Primary horsepower.....	1,457	1,305	11.6
Capital.....	$1,175,992	$689,640	70.5
Salaries and wages.....	732,854	419,718	74.6
Salaries.....	116,587	61,417	89.8
Wages.....	616,267	358,301	72.0
Rent and taxes.....	41,084	24,068	70.7
Cost of materials.....	327,396	135,119	142.3
Amount received for work done.....	1,775,349	785,782	125.9

[1] Percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 25).—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 the hand trades, household industries, etc.

TABLE 25.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments	37
Persons engaged	295
Proprietors and firm members	36
Salaried employees	27
Wage earners (average number)	232
Primary horsepower	241
Capital	$357,443
Salaries and wages	241,501
Salaries	45,307
Wages	196,194
Paid for contract work	849
Rent and taxes	30,855
Cost of materials	105,934
Amount received for work done	560,139

Custom gristmills and custom sawmills (Tables 26 and 27).—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 26 and 27, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed, and that for custom gristmills the selling value of the grain milled.

TABLE 26.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1909–1919.
	1919	1909	
Number of establishments	446	437	2.1
Persons engaged	575	737	−22.0
Proprietors and firm members	538	579	−7.1
Salaried employees	6	.....	.....
Wage earners (average number)	31	158	−80.4
Primary horsepower	6,746	7,763	−13.1
Capital	$807,904	$564,623	43.1
Salaries and wages	29,625	28,135	5.3
Salaries	4,380	.....	.....
Wages	25,245	28,135	−10.3
Rent and taxes	8,952	(2)	.....
Cost of materials [3]	1,733,900	1,203,590	44.1
Value of product [3]	2,216,273	1,495,457	48.2

[1] A minus sign (−) denotes decrease. [2] Figures not available.
[3] Includes estimate of all grain ground.

TABLE 27.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1909–1919.
	1919	1909	
Number of establishments	101	187	−46.0
Persons engaged	173	596	−71.0
Proprietors and firm members	128	282	−54.6
Salaried employees	.....	2	.....
Wage earners (average number)	45	312	−85.6
Primary horsepower	1,813	3,403	−46.7
Capital	$85,511	$223,976	−61.8
Salaries and wages	26,251	75,133	−65.1
Salaries	.....	500	.....
Wages	26,251	74,633	−64.8
Rent and taxes	678	(2)	.....
Cost of materials	5,131	3,767	36.2
Value of products [3]	82,551	208,092	−60.3

[1] A minus sign (−) denotes decrease. [2] Figures not available.
[3] Amount received for work done.

GENERAL TABLES.

Table 28 gives, for 1919, 1914, and 1909, for selected industries and for all industries combined, in the state, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products; and for the 10 cities of 10,000 inhabitants or more, similar data for all industries combined.

Table 29 presents, for 1919, for the state and for Huntington and Wheeling, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments; and the statistics for all industries combined for cities of 10,000 to 50,000 inhabitants.

TABLE 28.—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.		
All industries	1919	2,785	83,036	328,653	$101,840	$270,941	$471,971
	1914	2,749	71,078	278,504	43,784	110,033	193,512
	1909	2,586	63,893	217,496	33,000	92,878	161,950
Artificial stone products	1919	33	92	233	90	155	335
	1914	31	263	460	150	198	448
	1909	20	79	132	39	55	164
Bone and carbon black	1919	16	242	393	282	1,231	2,407
	1914	18	161	1,016	106	387	851
	1909	16	101	641	66	249	596
Bread and other bakery products.	1919	146	707	1,557	835	4,775	6,879
	1914	138	569	824	346	1,327	2,305
	1909	151	346	411	188	859	1,470
Brick, tile, pottery, and other clay products.	1919	54	4,477	11,656	5,046	3,823	12,428
	1914	55	4,799	8,925	3,235	2,222	6,798
	1909	50	2,916	6,657	1,639	1,061	3,629
Canning and preserving, vegetables and dried fruits.	1919	25	134	815	47	189	308
	1914	26	178	382	28	134	185
	1909	27	185	154	31	131	203
Cars and general shop construction and repairs by steam-railroad companies.	1919	38	11,609	12,332	16,065	10,476	28,248
	1914	37	8,437	5,060	5,540	4,985	10,990
	1909	24	5,652	5,394	3,170	3,063	6,733
Chemicals	1919	7	534	8,425	753	2,122	3,281
	1914	3	52	150	33	201	483
Clothing, men's	1919	15	917	217	523	2,201	3,822
	1914	7	491	116	219	1,435	2,173
	1909	9	403	210	126	1,055	1,469
Coffee, roasting and grinding	1919	5	29	81	17	467	553
	1914	3	5	24	3	60	71
Coke, not including gas-house coke.	1919	57	1,283	9,493	1,420	6,037	8,369
	1914	54	1,392	2,920	692	1,893	2,978
	1909	71	4,426	5,307	1,664	5,012	7,563
Confectionery and ice cream	1919	75	342	2,817	394	1,860	3,178
	1914	45	195	1,105	118	584	984
Cooperage [1]	1919	47	226	727	239	868	1,274
	1914	30	232	651	121	441	644
	1909	31	366	1,013	168	334	658
Copper, tin, and sheet-iron products.[2]	1919	44	1,403	3,022	1,089	3,341	6,334
	1914	21	1,131	1,536	590	2,058	3,060
	1909	17	769	833	334	975	1,663
Flour-mill and gristmill products.	1919	203	371	8,704	378	10,530	13,077
	1914	220	381	9,996	218	5,928	7,053
	1909	207	452	9,950	210	6,601	7,696
Foundry and machine-shop products.[3]	1919	96	2,004	5,554	2,439	7,204	15,306
	1914	84	1,804	8,578	1,230	2,580	4,845
	1909	83	1,354	3,539	820	1,760	3,392
Furniture	1919	16	741	2,093	652	1,581	3,220
	1914	22	560	1,628	302	649	1,278
	1909	25	578	1,469	253	384	965
Glass	1919	77	11,668	29,494	13,657	13,801	42,730
	1914	63	8,889	14,120	5,673	4,638	14,631
	1909	51	6,190	5,233	3,628	2,296	7,779
Ice, manufactured	1919	54	372	8,100	420	483	1,515
	1914	47	364	8,380	200	185	756
	1909	35	233	5,554	113	111	476
Iron and steel, steel works and rolling mills.	1919	20	11,630	80,231	19,993	50,794	85,036
	1914	15	5,348	63,002	4,826	14,658	21,186
	1909	16	5,060	46,508	3,887	15,896	22,435
Leather, tanned, curried, and finished.	1919	17	1,520	5,510	1,742	19,079	23,827
	1914	18	1,072	4,887	615	8,695	11,015
	1909	20	1,571	5,305	775	10,383	12,451
Lime	1919	9	727	3,700	788	907	2,395
	1914	10	773	4,026	378	434	980
	1909	13	514	1,000	188	224	644
Lumber and timber products [4].	1919	773	13,665	48,441	$15,374	$16,931	$46,314
	1914	995	17,417	68,045	9,703	9,582	28,994
	1909	1,016	18,643	62,356	8,632	8,676	28,758
Marble and stone work	1919	35	83	345	97	243	505
	1914	27	224	734	132	199	488
	1909	29	144	469	87	134	365
Mattresses and spring beds, not elsewhere specified.	1919	7	106	267	112	700	1,111
	1914	9	108	299	57	222	365
	1909	7	72	263	39	154	267
Mineral and carbonated waters.	1919	74	247	854	255	907	1,765
	1914	77	148	498	82	230	544
	1909	63	104	370	49	95	394
Minerals and earths, ground	1919	19	831	8,003	791	1,041	2,604
	1914	12	422	4,157	203	151	563
	1909	3	58	795	45	43	116
Paints	1919	4	132	790	102	396	864
	1914	3	19	195	14	61	111
Paper and wood pulp	1919	9	956	12,136	995	3,300	4,888
	1914	8	1,033	11,735	506	1,735	2,804
	1909	9	1,162	11,025	478	1,683	2,652
Printing and publishing [5]	1919	222	1,339	1,947	1,395	1,582	4,837
	1914	239	1,188	1,835	703	635	2,376
	1909	235	1,255	1,560	634	541	1,992
Slaughtering and meat packing	1919	10	639	3,076	716	16,798	19,044
	1914	7	214	1,557	140	4,447	4,788
	1909	6	167	1,321	123	3,385	3,704
Wood, turned and carved	1919	7	61	631	65	83	225
	1914	7	198	1,395	75	317	450
	1909	6	134	669	67	164	314
Woolen and worsted goods	1919	7	542	1,256	512	1,692	2,779
	1914	8	276	672	118	417	679
	1909	13	599	1,327	222	795	1,224
All other industries	1919	564	13,407	55,753	14,557	85,344	122,513
	1914	401	12,744	49,596	7,428	38,345	57,636
	1909	333	10,360	38,031	5,325	26,759	42,208
CITY.							
BLUEFIELD	1919	21	1,442	2,076	1,874	3,350	5,797
	1914	24	1,247	1,984	812	1,078	2,173
	1909	15	670	1,648	377	889	1,465
CHARLESTON	1919	106	2,259	8,823	2,491	7,029	13,873
	1914	89	1,081	4,574	637	2,172	3,699
	1909	63	951	4,106	469	2,137	3,235
CLARKSBURG	1919	86	2,321	9,406	3,151	4,931	11,882
	1914	43	316	1,414	213	1,010	1,654
FAIRMONT	1919	62	1,931	6,032	2,107	3,829	8,278
	1914	50	1,837	5,594	1,149	1,608	4,384
HUNTINGTON	1919	115	6,556	17,902	7,127	21,714	37,707
	1914	102	4,641	8,951	2,996	6,777	11,400
	1909	67	3,156	8,860	1,681	3,382	6,511
MARTINSBURG	1919	40	2,188	2,506	1,662	5,537	9,003
	1914	37	1,568	1,908	602	1,709	3,022
	1909	39	1,420	1,598	520	1,277	2,515
MORGANTOWN	1919	61	1,303	4,339	1,482	1,805	4,643
	1914	49	1,470	4,137	930	754	2,338
MOUNDSVILLE	1919	50	1,649	2,426	1,626	3,766	6,773
	1914	27	1,508	1,897	707	2,095	3,629
PARKERSBURG	1919	73	2,878	7,299	3,024	14,867	24,056
	1914	83	1,820	5,939	1,061	4,745	7,143
	1909	75	1,495	4,031	767	3,560	5,498
WHEELING	1919	243	8,622	33,846	10,109	46,309	72,640
	1914	201	7,920	35,963	5,110	15,974	27,879
	1909	176	7,809	29,486	4,427	16,025	27,077

[1] Includes "wooden goods" in 1909.
[2] Includes "stamped and enameled ware."
[3] Includes "iron and steel, welding," "plumbers' supplies," and "structural ironwork, not made in steel works or rolling mills," in all years; and also "hardware" and "pumps, steam," in 1919.
[4] Includes "boxes, wooden packing, except cigar boxes" and "lumber, planing-mill products, not including planing mills connected with sawmills."
[5] Includes "bookbinding and blank-book making" and "lithographing" in 1909.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY.	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	2,785	93,688	2,524	3,628	3,107	1,393	83,036	Se 89,041	My 79,617	(3)	(3)	(3)	(3)	(3)	Dollars. 339,189,678
2	Artificial stone products	33	148	41	9	4	2	92	Oc 124	Fe 46	111	111	.....	.....	.....	214,788
3	Automobile repairing	158	694	181	38	29	25	421	Au 481	Fe 4 351	457	452	1	4	.....	1,377,855
4	Awnings, tents, and sails	5	26	6	1	2	1	16	Jy 4 25	De 4 11	19	8	11	.....	.....	24,521
5	Bone and carbon black	16	298	24	23	6	3	242	Fe 258	No 229	236	236	.....	.....	.....	4,223,057
6	Boxes, paper, shipping containers	4	181	.....	10	6	11	154	Oc 211	Mh 81	216	121	95	.....	.....	596,925
7	Boxes, wooden packing, except cigar boxes.	9	204	6	10	3	1	184	Au 218	Fe 152	211	200	11	.....	.....	469,754
8	Brass and bronze products	3	65	1	9	2	3	50	De 60	Mh 4 47	60	55	5	.....	.....	262,563
9	Bread and other bakery products	146	978	158	39	46	28	707	No 765	Fe 638	717	611	100	5	1	3,102,271
10	Brick, terra-cotta, and fire-clay products.	36	1,151	6	67	26	20	1,032	.....	.....	1,164	1,107	56	1	.....	4,266,908
11	Building brick	25	712	5	42	13	9	643	Jy 834	Ja 382	763	755	7	1	.....	2,996,030
12	Fire brick	6	268	.....	20	7	5	236	Ja 262	Jy 207	241	241	.....	.....	.....	935,663
13	Terra-cotta products	5	171	1	5	6	6	153	Je 165	Ja 144	160	111	49	.....	.....	335,215
14	Brooms, from broom corn	13	43	19	10	2	.....	12	De 25	My 4 9	20	17	3	.....	.....	290,376
15	Butter	6	27	2	3	1	1	20	Se 4 22	De 4 18	20	19	1	.....	.....	122,924
16	Canning and preserving, vegetables and dried fruits.	25	182	44	4	.....	.....	134	Se 594	No 51	658	153	382	31	92	134,937
17	Carriages and wagons, including repairs.	36	200	48	7	1	7	137	.....	.....	139	137	2	.....	.....	449,682
18	Carriages and wagons	19	137	26	5	1	4	101	No 104	Oc 97	102	101	1	.....	.....	377,320
19	Repair work exclusively	17	63	22	2	.....	3	36	Jy 37	Fe 35	37	36	1	.....	.....	72,362
20	Cars and general shop construction and repairs by electric-railroad companies.	13	204	.....	6	2	1	195	Fe 203	Oc 4 191	192	187	5	.....	.....	452,918
21	Cars and general shop construction and repairs by steam-railroad companies.	38	12,300	.....	397	215	79	11,609	De 12,394	Ap 10,534	12,401	12,316	85	.....	.....	10,539,844
22	Chemicals	7	599	.....	41	21	3	534	Oc 635	My 452	495	491	4	.....	.....	8,631,079
23	Clothing, men's	15	1,008	12	47	17	15	917	De 1,071	Mh 766	1,072	341	731	.....	.....	2,114,483
24	Coffee, roasting and grinding	5	42	7	1	5	.....	29	Je 4 38	Mh 17	26	12	14	.....	.....	126,459
25	Coke, not including gas-house coke	57	1,437	.....	86	60	8	1,283	Ja 2,073	No 906	1,530	1,530	.....	.....	.....	12,635,737
26	Confectionery and ice cream	75	540	74	43	38	43	342	.....	.....	341	261	76	4	.....	2,894,918
27	Confectionery	18	138	18	9	7	9	95	Oc. 106	Au 85	99	53	46	.....	.....	272,604
28	Ice cream	57	402	56	34	31	34	247	Je 321	Fe 4 171	242	208	30	4	.....	2,622,314
29	Cooperage	47	275	21	19	5	4	226	Se 283	Ja 197	244	238	4	2	.....	907,877
30	Copper, tin, and sheet-iron work	39	239	35	21	9	4	170	De 220	Ap 147	217	204	13	.....	.....	789,520
31	Flour-mill and gristmill products	203	754	251	53	63	16	371	De 4 391	My 355	394	385	6	3	.....	5,520,372
32	Food preparations, not elsewhere specified.	6	18	6	5	1	.....	6	De 14	Mh 4 2	14	3	11	.....	.....	12,486
33	Foundry and machine shop products.	86	2,341	52	160	176	42	1,911	.....	.....	2,087	2,082	4	1	.....	9,958,250
34	Boiler shops	10	144	10	5	1	1	127	De 147	Ja 109	145	145	.....	.....	.....	436,508
35	Foundries	9	267	6	27	11	2	221	De 265	Mh 165	248	248	.....	.....	.....	626,738
36	Machine shops	45	1,097	27	70	109	25	866	De 978	Fe 673	982	978	4	.....	.....	6,432,289
37	Machine shop and foundry combined.	22	833	9	58	55	14	697	Au 733	Ap 653	712	711	.....	1	.....	2,462,715
38	Furniture	16	865	12	32	62	18	741	Se 830	Fe 651	805	766	38	1	.....	3,234,693
39	Glass	77	12,555	12	429	274	172	11,668	Oc 12,854	Jy 9,554	14,772	12,982	1,573	195	22	36,457,591
40	Glass, cutting, staining, and ornamenting.	9	192	8	14	2	8	160	De 196	Fe 124	197	84	110	1	2	294,491
41	Grindstones	4	116	.....	7	1	.....	108	Au 119	Ja 89	107	107	.....	.....	.....	150,079
42	Ice, manufactured	54	473	22	48	17	14	372	Jy 513	Ja 235	409	407	2	.....	.....	3,326,085
43	Iron and steel, blast furnaces	4	524	.....	29	60	18	417	Se 708	Je 252	746	746	.....	.....	.....	7,977,593
44	Iron and steel, steel works and rolling mills.	20	12,730	.....	366	543	191	11,630	Se 13,210	Oc 7,920	12,694	12,550	144	.....	.....	63,207,124
45	Iron and steel, welding	5	45	6	6	2	1	30	De 40	Ja 15	39	39	.....	.....	.....	79,761
46	Leather, tanned, curried, and finished	17	1,617	8	39	33	17	1,520	Jy 1,579	De 1,426	1,433	1,431	2	.....	.....	18,947,995
47	Lime	9	782	6	18	27	4	727	Au 4 755	Oc 697	716	715	1	.....	.....	3,096,561
48	Looking-glass and picture frames	9	116	12	3	2	3	96	Ap 121	Je 84	96	80	14	1	1	188,895
49	Lumber and timber products	643	13,690	775	313	90	85	12,427	De 13,499	Fe 10,880	15,035	14,967	58	10	.....	33,446,412
50	Lumber, planing-mill products, not including planing mills connected with sawmills.	121	1,419	102	130	97	36	1,054	De 1,162	Fe 941	1,167	1,150	3	14	.....	6,866,515
51	Marble and stone work	35	137	39	7	5	3	83	.....	.....	94	94	.....	.....	.....	316,505
52	Monuments and tombstones	28	108	31	5	5	3	64	Au 4 70	Mh 56	74	74	.....	.....	.....	277,628
53	Other marble and stone work, except slate.	7	29	8	2	.....	.....	19	Se 22	Ja 14	20	20	.....	.....	.....	38,877
54	Mattresses and spring beds, not elsewhere specified.	7	130	4	11	7	2	106	Se 121	My 95	105	82	23	.....	.....	361,138
55	Mineral and carbonated waters	74	402	76	45	20	14	247	Jy 323	Ja 182	225	219	5	1	.....	1,538,580
56	Minerals and earths, ground	19	902	3	45	16	7	831	Au 891	Fe 766	886	886	.....	.....	.....	2,405,875
57	Optical goods	9	28	7	4	1	1	15	(5) 15	(5) 15	17	14	3	.....	.....	123,637
58	Paints	4	183	3	15	24	9	132	Au 168	Ap 94	167	96	71	.....	.....	691,060
59	Paper and wood pulp	9	1,036	.....	50	22	8	956	Ja 1,171	Mh 854	1,125	1,066	58	1	.....	4,435,602
60	Patent and proprietary medicines	9	30	6	2	8	2	12	De 4 14	Jy 4 11	14	4	10	.....	.....	82,507
61	Paving materials	9	165	9	11	4	1	140	Au 192	Fe 38	208	208	.....	.....	.....	333,520
62	Pottery	18	3,689	1	132	69	42	3,445	De 3,748	Ja 3,272	3,745	2,708	990	31	16	9,341,202
63	Printing and publishing, book and job.	71	536	60	33	29	27	387	.....	.....	398	255	93	41	9	998,009
64	Job printing	68	530	59	31	29	25	386	No 401	Ja 365	397	255	92	41	9	958,267
65	Book publishing without printing.	3	6	1	2	.....	2	1	(5) 1	(5) 1	1	.....	1	.....	.....	39,742

[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).
[3] No figures given for reasons stated under "Explanation of terms."

COMBINED AND SPECIFIED INDUSTRIES: 1919.

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.[2]		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
Dollars. 11,070,734	*Dollars.* 6,615,339	*Dollars.* 101,840,420	*Dollars.* 2,121,422	*Dollars.* 616,158	*Dollars.* 15,692,215	*Dollars.* 250,192,627	*Dollars.* 20,747,969	*Dollars.* 471,970,877	*Dollars.* 201,030,281	328,653	172,113	45,042	38,972	9,411	63,115	92,307	1
17,513	4,258	90,470	.....	3,738	3,358	150,394	4,141	334,751	180,216	233	25	.....	98	.....	110	2	2
53,962	43,727	529,944	4,925	55,647	15,796	811,614	25,891	2,299,659	1,462,154	1,071	.....	4	459	.....	608	12	3
1,820	2,089	15,202	.....	1,880	256	32,314	328	77,171	44,529	9	.....	.....	.....	.....	9	.....	4
74,230	10,994	282,179	.....	875	33,672	369,020	862,124	2,407,136	1,175,992	393	40	.....	353	.....	.....	.....	5
32,051	26,049	125,940	.....	8,198	20,189	595,736	8,539	981,032	376,757	261	.....	.....	.....	.....	261	.....	6
25,399	7,817	163,780	.....	1,260	8,219	681,543	3,694	985,260	300,023	1,042	550	.....	250	.....	242	25	7
24,730	10,142	64,828	.....	608	6,766	187,288	2,983	366,685	176,414	110	100	.....	.....	.....	10	.....	8
91,841	93,004	835,162	13,522	40,170	95,689	4,684,755	90,493	6,879,183	2,103,935	1,557	49	4	275	.....	1,229	112	9
144,123	67,040	1,052,811	.....	967	31,573	307,777	477,600	2,316,288	1,530,911	8,649	6,984	.....	632	.....	1,033	460	10
83,047	34,161	673,951	.....	967	18,616	137,054	332,798	1,466,496	996,644	6,997	5,779	.....	425	.....	793	160	11
46,103	11,943	291,428	.....	.....	8,160	121,206	119,519	627,412	386,597	1,230	900	.....	90	.....	240	300	12
11,973	20,936	87,432	.....	.....	4,797	49,427	25,283	222,380	147,670	422	305	.....	117	.....	.....	.....	13
14,926	3,380	9,029	73,138	267	2,727	262,226	2,000	355,706	91,480	90	.....	.....	5	20	65	.....	14
2,675	955	15,441	2,737	.....	750	241,446	2,225	299,234	55,563	171	104	.....	54	.....	13	.....	15
1,170	.....	47,168	1,069	300	649	183,588	5,540	307,688	118,560	815	799	.....	14	.....	2	.....	16
14,370	15,586	151,175	500	5,843	10,094	309,644	10,373	626,213	306,196	479	200	.....	127	.....	152	7	17
11,970	13,662	111,554	500	248	9,297	254,576	7,754	480,669	218,339	373	200	.....	89	.....	84	.....	18
2,400	1,924	39,621	.....	5,595	797	55,068	2,619	145,544	87,857	106	.....	.....	38	.....	68	7	19
10,544	3,350	216,675	.....	1,877	8,007	138,409	2,283	395,919	255,227	331	.....	.....	.....	.....	331	.....	20
992,561	369,629	16,065,221	.....	.....	63,710	9,889,339	586,391	28,248,489	17,772,759	12,332	8,003	2,133	67	50	2,079	5,280	21
181,747	46,188	752,936	.....	.....	115,411	1,896,682	225,785	3,280,657	1,158,190	8,425	1,330	5,850	655	.....	590	1,520	22
143,877	51,975	523,223	.....	6,182	92,218	2,188,429	12,265	3,822,400	1,621,706	217	.....	.....	.....	.....	217	.....	23
3,886	10,883	16,761	.....	924	172	465,543	1,412	552,633	85,678	81	.....	.....	.....	.....	81	.....	24
158,083	67,604	1,419,567	.....	6,969	152,776	547,551	5,489,687	8,368,698	2,331,460	9,493	3,829	.....	.....	.....	5,664	620	25
95,377	78,916	394,443	300	39,207	30,897	1,790,989	69,233	3,177,938	1,317,725	2,817	782	.....	705	.....	1,330	193	26
18,043	18,409	75,505	.....	18,370	5,447	280,885	4,670	504,384	218,829	112	10	.....	20	.....	82	13	27
77,334	60,507	318,938	300	20,837	25,360	1,510,095	64,563	2,673,554	1,098,896	2,705	772	.....	685	.....	1,248	180	28
34,320	7,960	238,677	.....	1,908	27,623	858,830	9,171	1,273,926	405,925	727	302	.....	5	.....	420	.....	29
45,649	14,316	230,484	.....	9,118	35,273	1,602,925	5,005	2,150,705	512,775	179	.....	.....	7	.....	163	.....	30
155,170	98,680	377,890	1,105	7,103	114,739	10,417,968	112,461	13,076,542	2,546,113	8,704	2,425	.....	3,297	1,480	1,502	513	31
1,490	.....	6,023	150	1,278	100	9,313	417	28,827	19,097	4	.....	.....	.....	.....	4	.....	32
559,823	244,246	2,309,267	10,291	14,057	993,951	6,695,009	179,435	14,665,387	7,790,943	5,019	1,290	.....	985	.....	2,744	394	33
9,250	1,710	145,681	.....	1,075	60,826	440,709	14,513	822,270	367,048	445	.....	.....	91	.....	354	.....	34
86,170	18,690	274,634	.....	1,040	79,509	296,549	30,944	893,577	566,084	480	95	.....	22	.....	363	.....	35
288,843	134,351	1,112,755	.....	9,512	770,648	4,800,978	77,614	10,171,560	5,292,968	1,889	487	.....	375	.....	1,027	315	36
175,560	83,495	776,197	10,291	2,430	82,968	1,156,773	56,364	2,777,980	1,564,843	2,205	708	.....	497	.....	1,000	79	37
118,829	179,228	652,064	900	1,500	102,170	1,554,770	26,141	3,220,099	1,639,188	2,093	902	150	423	.....	618	65	38
1,517,517	729,231	13,656,859	34,683	10,905	1,569,140	11,010,447	2,790,987	42,730,338	28,928,904	29,494	2,875	.....	17,397	2,450	6,772	12,372	39
24,129	11,054	116,972	4,658	2,160	5,137	305,426	9,193	491,733	177,114	115	.....	.....	10	.....	105	.....	40
19,842	2,160	100,486	.....	1,717	11,301	28,552	8,472	256,295	219,271	353	218	.....	70	.....	65	.....	41
89,365	27,675	419,867	375	350	53,933	244,319	238,922	1,514,801	1,031,560	8,100	6,344	295	450	25	986	120	42
86,090	72,407	849,587	.....	.....	95,258	3,770,058	1,740,431	6,411,939	901,450	19,360	11,260	8,100	.....	.....	.....	8,798	43
1,470,026	1,233,426	19,993,057	.....	.....	3,543,424	47,569,942	3,224,539	85,036,489	34,242,038	89,231	49,292	18,300	630	1,333	10,676	41,366	44
8,930	1,252	43,745	.....	1,839	402	23,108	1,145	108,071	83,818	29	.....	.....	.....	.....	29	.....	45
121,284	90,170	1,741,717	.....	.....	288,430	18,809,116	269,947	23,827,131	4,748,068	5,510	4,970	.....	490	.....	50	1,839	46
59,865	56,116	788,410	.....	6,940	129,241	502,501	404,419	2,394,667	1,487,747	3,700	30	.....	.....	.....	3,670	.....	47
7,709	5,383	66,398	100	1,920	2,492	47,853	1,018	151,139	102,268	180	175	.....	.....	.....	5	.....	48
853,628	492,347	14,023,043	1,818,014	18,800	968,442	8,239,908	312,051	34,419,523	25,867,564	40,596	38,553	826	218	113	886	325	49
281,434	187,517	1,186,808	6,673	7,777	99,820	7,628,551	65,118	10,909,224	3,215,555	6,803	3,223	6	1,264	276	2,034	455	50
12,400	10,144	97,143	125	2,668	2,443	239,215	4,186	505,255	261,854	345	150	.....	156	.....	39	.....	51
8,800	10,144	77,654	.....	2,004	2,077	206,290	4,090	423,379	212,999	343	150	.....	154	.....	39	.....	52
3,600	.....	19,489	125	664	366	32,925	96	81,876	48,855	2	.....	.....	2	.....	.....	.....	53
30,200	17,176	112,302	.....	4,140	10,994	697,692	2,609	1,111,350	411,049	267	25	.....	170	.....	72	50	54
73,202	33,046	254,945	705	12,476	51,797	885,940	21,440	1,764,621	857,241	854	238	.....	77	1	538	20	55
112,853	28,382	791,016	.....	4,978	22,834	868,559	172,349	2,604,020	1,563,112	8,003	2,426	.....	67	.....	5,510	65	56
11,668	960	20,997	.....	7,128	1,259	38,615	1,033	112,025	72,377	19	.....	.....	.....	.....	19	.....	57
147,900	32,600	101,767	.....	420	31,032	384,866	10,808	864,447	468,773	790	180	.....	210	.....	400	150	58
164,735	47,687	995,250	6,631	.....	174,879	2,906,360	393,155	4,887,568	1,588,053	12,136	6,030	1,000	250	3,600	1,256	3,125	59
1,650	18,480	15,340	271	3,168	1,339	153,956	484	269,172	114,732	2	.....	.....	.....	.....	2	.....	60
18,275	4,810	137,319	.....	1,490	9,929	66,303	23,303	341,589	251,983	1,177	970	.....	40	.....	167	.....	61
604,569	224,081	3,992,995	6,000	32,989	460,998	2,285,360	752,700	10,111,742	7,073,682	3,007	1,547	250	267	.....	943	607	62
73,903	59,171	464,830	8,491	36,104	18,780	513,841	13,051	1,434,478	907,586	378	.....	.....	44	1	333	6	63
70,593	57,091	464,050	2,176	35,000	18,555	509,416	13,036	1,414,791	892,339	378	.....	.....	44	1	333	6	64
3,310	2,080	780	6,315	1,104	225	4,425	15	19,687	15,247	.....	.....	.....	.....	.....	.....	.....	65

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

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY.	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—Continued.															
																Dollars.
1	Printing and publishing, newspapers and periodicals.	151	1,453	168	86	173	74	952	.....	.....	971	765	195	9	2	2,724,023
2	Printing and publishing	14	348	6	32	64	26	220	Ja 223	Fe 216	221	204	16	1	.....	646,403
3	Printing, publishing, and job printing.	125	1,054	155	49	104	43	703	No 726	Fe [3] 676	721	539	172	8	2	2,029,421
4	Publishing without printing	12	51	7	5	5	5	29	([4]) 29	([4]) 29	29	22	7	.....	.....	48,199
5	Saddlery and harness	51	146	54	5	5	4	78	Je [3] 83	Oc 71	73	66	7	.....	.....	594,275
6	Salt	4	92	.....	12	4	5	71	Au 96	Fe 39	98	98	.....	.....	.....	847,944
7	Shipbuilding, wooden, including boat building.	6	113	1	9	1	1	101	Ap [3] 122	De 67	109	109	.....	.....	.....	221,543
8	Signs and advertising novelties	5	12	5	.....	1	1	5	De [3] 7	Au [3] 4	10	6	4	.....	.....	130,272
9	Slaughtering and meat packing	10	808	4	48	88	29	639	De 785	Se 582	785	715	70	.....	.....	4,295,862
10	Stamped and enameled ware, not elsewhere specified.	5	1,304	.....	19	31	21	1,233	No 1,325	Mh 1,190	1,307	808	488	2	9	2,780,344
11	Stoves, gas and oil	4	54	2	7	5	3	37	Se [3] 49	Mh [3] 27	44	39	5	.....	.....	80,735
12	Tobacco, cigars and cigarettes	65	1,302	67	25	35	12	1,163	De [3] 1,395	Fe 968	1,418	507	905	4	2	2,775,632
13	Vinegar and cider	7	47	5	9	5	1	27	Oc 65	Mh 9	62	56	5	1	.....	448,811
14	Wood, turned and carved	7	72	3	6	1	1	61	No [3] 83	Jy [3] 50	84	84	.....	.....	.....	251,514
15	Woolen and worsted goods	7	590	.....	36	6	6	542	De 623	Mh 412	623	370	253	.....	.....	2,243,672
16	All other industries*	130	11,379	50	468	597	235	10,029	.....	.....	.....	.....	.....	.....	.....	53,773,117

* All other industries embrace—
Airplanes, seaplanes, and airships, and parts ... 1
Agricultural implements ... 1
Automobile bodies and parts ... 1
Automobiles ... 1
Baskets, and rattan and willow ware. 1
Blacking, stains, and dressings ... 1
Boots and shoes ... 2
Boxes, cigar ... 1
Buttons ... 1
Carpets, rag ... 1
Carriage and wagon materials ... 3
Cars, steam-railroad, not including operations of railroad companies ... 1
Cement ... 1
Clothing, women's ... 4
Coal-tar products ... 3
Coffins, burial cases, and undertakers' goods ... 5
Cutlery, axes and hatchets ... 1
Dairymen's, poultrymen's, and apiarists' supplies ... 3
Druggists' preparations ... 2
Dyeing and finishing textiles ... 1
Dyestuffs and extracts—natural ... 3
Electrical machinery, apparatus, and supplies ... 6
Explosives ... 8
Fertilizers ... 1
Galvanizing ... 2
Gas, illuminating and heating ... 3
Hand stamps ... 2
Hardware ... 1
Hats, fur-felt ... 1
Iron and steel forgings ... 1
Knit goods ... 1
Lamps ... 1
Liquors, malt ... 1
Lithographing ... 1

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

1	**HUNTINGTON**—All industries.	115	7,461	59	339	359	148	6,556	No. 6,892	Jy 6,169	7,330	6,112	1,155	51	12	20,338,194
2	Bread and other bakery products	10	87	9	7	4	6	61	De 65	Mh 56	64	61	3	.....	.....	259,311
3	Confectionery and ice cream	7	52	7	4	4	1	36	Je 45	Fe 30	33	20	13	.....	.....	121,392
4	Foundry and machine-shop products.	4	36	2	3	2	.....	29	Ap 41	Mh 19	33	33	.....	.....	.....	139,747
5	Furniture, wood, other than rattan and willow.	5	386	1	14	41	12	318	Oc 343	Je 296	337	327	10	.....	.....	1,786,304
6	Lumber and timber products	3	188	2	8	3	2	173	De [3] 187	My 161	187	178	9	.....	.....	586,911
7	Marble and stone work	5	41	5	3	.....	1	32	De 37	Mh [3] 27	36	36	.....	.....	.....	75,787
8	Printing and publishing, job printing	8	102	4	4	7	10	77	No 83	Fe 66	82	34	4	36	8	196,989
9	All other industries*	73	6,569	29	296	298	116	5,830	.....	.....	6,558	5,423	1,116	15	4	17,171,753

*All other industries embrace—
Artificial stone products ... 3
Automobile repairing ... 1
Awnings, tents, and sails ... 1
Boots and shoes ... 1
Boxes, wooden packing, except cigar boxes ... 2
Brick and terra-cotta products ... 2
Brooms, from broom corn ... 2
Carriages and wagons ... 1
Cars and general shop construction and repairs by electric-railroad companies ... 1
Cars and general shop construction and repairs by steam-railroad companies ... 1
Cars, steam-railroad, not including operations of railroad companies ... 1
Clothing, men's ... 3
Clothing, women's ... 1
Coal-tar products ... 1
Coffee, roasting and grinding ... 1
Coffins, burial cases, and undertakers' goods ... 1
Cooperage, hogsheads and barrels ... 1
Copper, tin, and sheet-iron work ... 1
Flour-mill and gristmill products ... 2
Glass ... 3
Hand stamps ... 1
Hats, fur-felt ... 1
Ice, manufactured ... 2
Iron and steel, steel works and rolling mills ... 1

[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.								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.[2]		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
191,997	246,344	930,144	35,776	47,628	57,022	997,027	58,238	3,402,541	2,347,276	1,569	4	.....	537	13	1,015	123	1
69,808	97,418	251,119	550	10,029	7,653	306,335	11,553	975,441	657,553	369	.....	.....	36	.....	333	15	2
119,459	136,256	637,481	8,136	32,698	49,184	666,272	45,149	2,277,381	1,565,960	1,154	4	.....	501	13	636	108	3
2,730	12,670	41,544	27,090	4,901	185	24,420	1,536	149,719	123,763	46	.....	.....	.....	.....	46	.....	4
30,193	14,370	81,532	.....	9,618	18,396	450,385	4,698	788,600	333,517	178	125	.....	9	.....	44	25	5
28,770	8,196	65,802	.....	.....	3,364	68,538	52,583	212,832	91,711	1,092	875	150	67	.....	.....	35	6
19,740	1,885	100,060	.....	888	1,778	62,885	2,779	213,051	147,387	246	246	.....	.....	.....	.....	.....	7
.....	2,977	4,145	.....	326	194	16,960	257	30,841	13,624	2	.....	.....	.....	.....	2	.....	8
141,494	136,896	716,435	5,200	13,366	157,530	16,721,412	77,079	19,043,629	2,245,138	3,076	930	1,766	225	18	137	2,461	9
112,018	77,694	858,674	.....	360	164,692	1,622,659	109,982	4,183,270	2,450,629	2,352	.....	.....	895	.....	1,957	118	10
16,300	11,880	32,574	.....	3,300	2,007	94,306	3,892	178,463	80,265	52	.....	.....	35	.....	17	.....	11
54,434	53,470	789,847	150	21,903	990,311	1,695,874	12,549	4,074,732	2,366,309	222	.....	.....	27	.....	195	.....	12
17,300	5,413	15,621	.....	1,222	1,745	168,859	2,203	255,947	84,875	167	75	.....	10	.....	82	.....	13
11,930	866	64,770	350	45	2,825	80,990	2,247	225,455	142,218	631	615	.....	10	.....	6	.....	14
139,079	13,334	512,188	.....	100,562	57,197	1,631,421	60,301	2,778,916	1,087,194	1,256	710	.....	32	.....	514	.....	15
1,516,268	1,195,732	11,114,415	84,583	49,095	4,895,155	72,487,720	1,684,184	103,826,757	29,654,853	30,568	12,313	6,208	6,904	31	5,112	11,044	16

Matches..... 1
Mirrors, framed and unframed, not elsewhere specified..... 2
Models and patterns, not including paper patterns..... 2
Musical instruments and materials, not elsewhere specified..... 1
Oils, mineral..... 2
Paper goods, not elsewhere specified. 1
Peanuts, grading, roasting, cleaning, and shelling..... 1
Petroleum, refining..... 5
Photo-engraving..... 1
Pickles, preserves..... 3
Plumbers' supplies, not elsewhere specified..... 1
Pumps, steam..... 1
Refrigerators..... 1
Rubber tires, tubes, and rubber goods, not elsewhere specified..... 2
Saws..... 1
Shipbuilding, steel..... 2
Shirts..... 4
Silk goods..... 1
Smelting and refining, zinc..... 3
Soap..... 1
Stoves and ranges..... 2
Structural ironwork, not made in steel works or rolling mills..... 2
Tin plate and terneplate..... 4
Tinware, not elsewhere specified.... 3
Tobacco, chewing and smoking..... 3
Tools, not elsewhere specified..... 4
Toys and games..... 1
Wall plaster and composition flooring..... 3
Wirework..... 2
Wood distillation..... 1
Wood preserving..... 1
Wooden goods, not elsewhere specified..... 1

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

1,124,327	808,595	7,126,953	10,056	92,019	2,123,712	21,200,386	513,967	37,707,241	15,992,888	17,902	7,297	2,150	3,640	.....	4,815	4,391	1
20,400	9,538	80,086	.....	4,431	30,343	477,709	7,011	741,830	257,110	253	.....	.....	.....	.....	253	.....	2
17,200	6,800	46,982	.....	5,105	1,475	232,291	3,830	381,622	145,501	135	7	.....	106	.....	22	80	3
3,444	2,965	33,982	.....	1,882	1,273	26,991	1,260	65,519	37,268	123	.....	.....	60	.....	63	.....	4
54,191	119,254	304,124	.....	.....	48,953	1,120,495	7,889	2,115,902	987,518	850	700	150	.....	.....	.....	60	5
32,177	10,826	209,470	.....	5,000	11,987	210,277	3,947	490,433	276,209	456	300	.....	.....	.....	156	.....	6
5,300	1,008	29,564	.....	240	782	27,469	1,530	73,361	44,312	160	150	.....	10	.....	.....	.....	7
15,949	20,355	111,094	.....	5,748	9,093	150,539	1,331	371,158	219,288	65	.....	.....	.....	.....	65	.....	8
975,666	637,849	6,311,651	10,056	69,613	2,010,806	18,954,615	487,119	33,467,416	14,025,682	15,860	6,140	2,000	3,464	.....	4,256	4,251	9

Iron and steel, forgings, not made in steel works or rolling mills..... 1
Looking-glass and picture frames..... 1
Lumber, planing-mill products, not including planing mills connected with sawmills..... 6
Mattresses and spring beds, not elsewhere specified..... 2
Mineral and carbonated waters..... 2
Mirrors, framed and unframed, not elsewhere specified..... 1
Musical instruments and materials, not elsewhere specified..... 1
Paints..... 2
Patent and proprietary medicines.... 1
Pickles, preserves..... 1
Pottery, chinaware..... 1
Printing and publishing, newspapers and periodicals..... 3
Rubber tires, tubes, and rubber goods, not elsewhere specified..... 1
Saddlery and harness..... 1
Shipbuilding, wooden, repairwork only 1
Slaughtering and meat packing..... 1
Stamped ware..... 1
Stoves and ranges..... 2
Stoves, gas and oil..... 3
Structural ironwork, not made in steel works or rolling mills..... 1
Tobacco, cigars and cigarettes..... 1
Tools, not elsewhere specified..... 1
Wood, turned and carved..... 3

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

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY.	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	**WHEELING**—All industries	243	9,893	178	388	488	217	8,622	Jy. 9,113	Oc. 8,021	9,175	7,272	1,798	87	18	*Dollars.* 35,439,243
2	Automobile repairing	29	187	19	21	8	11	128	Se 139	Fe 113	133	132	1	.....	.....	287,072
3	Bread and other bakery products	22	218	22	5	15	4	172	Oc 185	Mh 160	159	131	28	.....	.....	970,471
4	Carriages and wagons, including repairs.	3	20	5	.....	.....	1	14	Se [3] 15	De [3] 14	14	14	.....	.....	.....	21,110
5	Confectionery and ice cream	15	124	14	8	6	7	89	.....	.....	93	60	32	1	.....	450,864
6	Confectionery	8	85	7	7	5	6	60	Oc 71	Jy [3] 55	62	38	24	.....	.....	175,659
7	Ice cream	7	39	7	1	1	1	29	Oc 32	De 24	31	22	8	1	.....	275,205
8	Copper, tin, and sheet-iron work	10	47	8	5	1	2	31	De [3] 34	Ja 27	33	33	.....	.....	.....	60,642
9	Foundry and machine-shop products	6	98	6	9	1	4	78	Ja 91	No [3] 70	75	75	.....	.....	.....	242,869
10	Glass	3	783	.....	26	15	8	734	De 894	Au 605	739	508	156	71	4	1,255,730
11	Ice, manufactured	4	38	2	3	.....	1	32	Je 46	Mh [3] 25	31	31	.....	.....	.....	193,942
12	Iron and steel, steel works and rolling mills.	6	2,534	.....	67	123	37	2,307	Fe 2,768	Oc 1,556	2,345	2,337	8	.....	.....	11,134,676
13	Looking-glass and picture frames	4	14	7	.....	.....	.....	7	(4) 7	(4) 7	7	5	1	1	.....	10,297
14	Lumber, planing-mill products, not including planing mills connected with sawmills.	5	101	2	10	8	4	77	Au 89	Ja 61	80	80	.....	.....	.....	409,758
15	Mineral and carbonated waters	5	29	6	2	1	3	17	Au [3] 22	Fe [3] 14	21	19	2	.....	.....	122,247
16	Optical goods	4	16	1	3	1	1	10	(4) 10	(4) 10	10	8	2	.....	.....	77,385
17	Pottery, chinaware	3	557	.....	14	17	8	498	No 575	My 410	567	411	143	9	4	1,213,278
18	Printing and publishing, book and job	8	52	6	1	3	5	37	(4) 37	(4) 37	37	21	16	.....	.....	83,451
19	Printing and publishing, newspapers and periodicals.	7	332	3	13	21	13	282	Se 284	De [3] 280	280	252	28	.....	.....	758,537
20	Tobacco, cigars	32	481	34	7	5	4	431	De 550	Ja 269	550	395	154	1	.....	770,112
21	All other industries *	77	4,282	43	194	263	104	3,678	.....	.....	4,001	2,760	1,227	4	10	17,376,802

*All other industries embrace—
Airplanes, seaplanes, and airships, and parts 1
Awnings, tents, and sails 2
Baskets, and rattan and willow ware 1
Boxes, cigar 1
Boxes, wooden packing, except cigar boxes 1
Brass and bronze products 2
Brick and terra-cotta products 1
Carriage and wagon materials 1
Cars and general shop construction and repairs by electric-railroad companies 2
Cars and general shop construction and repairs by steam-railroad companies 1
Clothing, men's 1
Clothing, women's 1
Coffee, roasting and grinding 3
Cooperage 2
Druggists' preparations 1
Dyeing and finishing textiles 1
Electrical machinery, apparatus, and supplies 2
Flour-mill and gristmill products 1
Food preparations, not elsewhere specified 2
Furniture 2
Galvanizing 1

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

1	BLUEFIELD	21	1,587	10	65	51	19	1,442	Se 1,586	Mh 1,192	1,594	1,573	19	2	.....	2,418,823
2	CHARLESTON	106	2,746	78	179	166	64	2,259	No 2,491	Ja 1,981	2,479	2,166	311	2	.....	10,372,391
3	CLARKSBURG	86	2,717	50	120	168	58	2,321	Oc 2,690	Ap 2,026	2,869	2,657	195	17	.....	7,704,248
4	FAIRMONT	62	2,214	41	100	92	50	1,931	Oc 2,249	Mh 1,680	2,222	1,927	295	.....	.....	8,212,550
5	MARTINSBURG	40	2,377	37	68	54	30	2,188	Oc 2,369	Fe 2,067	2,256	1,163	1,033	38	22	6,523,038
6	MORGANTOWN	61	1,482	42	77	35	25	1,303	No 1,418	Mh 1,179	1,412	1,153	243	12	4	4,320,666
7	MOUNDSVILLE	50	1,862	56	69	60	28	1,649	De 1,909	Jy 1,230	1,831	1,421	354	42	14	6,208,179
8	PARKERSBURG	73	3,347	44	139	221	65	2,878	De 3,195	Fe 2,355	3,274	2,577	695	2	.....	14,740,503

[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.								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.[2]		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars. 1,129,076	*Dollars.* 1,033,449	*Dollars.* 10,108,846	*Dollars.* 41,033	*Dollars.* 111,479	*Dollars.* 4,042,250	*Dollars.* 44,496,981	*Dollars.* 1,812,068	*Dollars.* 72,639,728	*Dollars.* 26,330,679	33,846	19,209	43	2,337	59	12,198	5,027	1
31,112	14,507	150,142	.....	18,683	2,448	323,297	7,936	1,042,423	711,190	166	.....	.....	18	.....	148	.....	2
23,591	36,167	194,235	256	6,073	38,565	1,186,339	18,622	1,680,838	475,877	364	25	.....	165	.....	174	122	3
.....	624	15,367	500	3,060	118	10,575	767	47,771	36,429	35	.....	.....	.....	.....	35	.....	4
15,143	14,537	85,589	.....	13,668	4,354	335,220	6,372	560,425	218,833	338	13	.....	154	.....	171	100	5
14,623	13,359	45,170	.....	10,075	2,583	155,250	3,638	285,140	126,252	41	10	.....	.....	.....	31	.....	6
520	1,178	40,419	.....	3,593	1,771	179,970	2,734	275,285	92,581	297	3	.....	154	.....	140	100	7
5,578	3,059	44,591	.....	2,313	1,116	49,776	628	142,138	91,734	6	.....	.....	3	.....	3	.....	8
21,657	4,670	117,021	.....	2,916	11,237	142,921	8,612	376,874	225,341	173	.....	.....	25	.....	148	35	9
81,633	120,772	567,394	2,340	2,000	48,583	429,616	198,151	1,727,390	1,099,623	763	.....	.....	5	.....	758	.....	10
6,720	1,040	44,628	.....	.....	2,898	12,070	30,710	132,585	89,805	645	495	.....	105	.....	45	.....	11
218,428	219,621	3,616,781	.....	.....	1,473,918	7,289,729	578,374	16,411,831	8,543,728	18,971	12,290	.....	535	.....	6,146	1,722	12
.....	.....	5,355	.....	1,140	50	4,276	166	14,244	9,802	3	.....	.....	.....	.....	3	.....	13
19,368	12,889	106,003	.....	1,716	5,990	382,690	4,194	614,188	227,304	401	255	.....	50	.....	96	.....	14
9,600	2,756	17,966	.....	1,224	8,824	55,888	1,010	103,905	47,007	63	.....	.....	.....	.....	63	.....	15
7,668	960	13,152	.....	5,100	965	22,179	880	66,501	43,442	12	.....	.....	.....	.....	12	.....	16
46,546	34,949	513,921	.....	.....	21,625	234,430	85,524	1,257,629	937,675	627	341	.....	.....	.....	286	97	17
3,000	6,700	29,146	4,200	3,382	704	73,298	1,312	134,401	59,791	29	.....	.....	.....	1	28	.....	18
33,740	43,262	252,232	13,464	2,856	15,525	314,960	13,800	945,205	616,445	444	.....	.....	220	.....	224	106	19
23,325	9,437	434,573	150	17,876	160,480	580,834	2,955	1,618,570	1,034,781	7	.....	.....	.....	.....	7	.....	20
581,967	507,499	3,900,750	20,123	29,472	2,244,850	33,048,883	852,055	45,762,810	11,861,872	10,799	5,790	43	1,057	58	3,851	2,845	21

Glass, cutting, staining, and ornamenting 2
Iron and steel, blast furnaces 2
Lamps 1
Leather, tanned, currried, and finished 1
Lithographing 1
Marble and stone work 3
Matches 1
Mattresses and spring beds, not elsewhere specified 2
Minerals and earths, ground 1
Models and patterns, not including paper patterns 1
Paints 1
Paper goods, not elsewhere specified .. 1
Patent and proprietary medicines 4
Photo-engraving 1
Pickles, preserves 1
Saddlery and harness 5
Signs and advertising novelties 3
Slaughtering and meat packing 5
Stamped ware 1
Stoves and ranges 1
Structural ironwork, not made in steel works or rolling mills 1
Tin plate and terneplate 1
Tinware, not elsewhere specified 1
Tobacco, chewing and smoking 2
Wall plaster and composition flooring. 2
Wirework, not elsewhere specified ... 2

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

166,320	95,751	1,873,773	5,800	7,210	32,839	3,250,343	100,106	5,797,475	2,447,026	2,076	1,162	.....	.....	.....	914	936	1
584,705	297,460	2,490,658	12,875	45,684	708,183	6,848,807	180,488	13,872,624	6,843,329	8,823	6,186	204	637	.....	1,796	1,607	2
307,538	282,463	3,151,374	.....	35,581	318,348	4,288,069	643,203	11,881,831	6,950,559	9,406	1,824	.....	4,441	2,450	691	2,155	3
294,834	201,333	2,106,871	12,767	34,722	179,524	3,495,365	333,314	8,278,398	4,449,719	6,032	580	.....	2,970	.....	2,482	3,185	4
214,332	111,144	1,661,640	29,801	106,142	91,694	5,398,854	138,452	9,003,301	3,465,995	2,506	620	20	49	15	1,802	.....	5
228,522	90,212	1,481,684	3,165	19,322	130,107	1,522,683	282,332	4,643,456	2,838,441	4,339	2,075	.....	117	.....	2,147	134	6
203,754	108,005	1,625,580	117,423	7,683	141,182	3,435,717	330,081	6,772,848	3,007,050	2,426	250	.....	1,109	.....	1,067	175	7
549,713	350,446	3,023,600	850	14,597	1,024,434	14,470,926	396,462	24,055,134	9,188,746	7,299	1,955	.....	752	.....	4,592	185	8

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

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

WISCONSIN

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

CONTENTS

	Page.
EXPLANATION OF TERMS	2
GENERAL STATISTICS.	
General character of the state	3
Comparative summary	4
Statistics for the state, by counties	5
Principal industries, ranked by value of products	6
Persons engaged in manufacturing industries	7
Average number of wage earners for selected industries, with per cent, by sex and age	7
Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more	8
Wage earners, by months	8
Wage earners, by months, for selected industries and for cities	9
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities	11
Size of establishments, by average number of wage earners, for selected industries and for cities	13
Size of establishments, by value of products	14
Size of establishments, by value of products, for selected industries	14
Size of establishments, by value of products, for cities of 10,000 inhabitants or more	17
Character of ownership, for selected industries and for cities	18
Manufactures, by population groups, in cities of 10,000 inhabitants or more	19
Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state	20
Number and horsepower of types of prime movers	20
Fuel consumed	21
SPECIAL STATISTICS.	
Butter, cheese, and condensed milk	22
Slaughtering and meat packing	22
Automobiles, including bodies and parts	23
Leather, tanned, currried, and finished	23
Engines, steam, gas, and water	24
Paper and wood pulp	24
Lumber and timber products	25
Flour-mill and gristmill products	25
Boots and shoes	25
Agricultural implements	26
Printing and publishing	26
Laundries	27
Dyeing and cleaning	27
Custom gristmills and custom sawmills	27
GENERAL TABLES.	
Table 35.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909	28
Table 36.—Detailed statement of all industries combined and specified industries: 1919	32

WASHINGTON
GOVERNMENT PRINTING OFFICE
1922

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 bulletin 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 fuels is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

WISCONSIN.

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	10.1
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	119,641,684	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	227,255,092	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	8,625
Barron	74	460	458,088	149,608	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	6,667,057	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	182,306	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	3,281	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	5,499,700	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	272,202	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	748
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	1,510,999	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	6,568	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	10,639	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"; "motocycles, 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	866	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	27,571,897	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	*212,660*	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	*1,850*	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	85.6
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	7,109	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	2,699	2,744	2,953	**3,016**	3,011	2,928	83.0
Bread and other bakery products	2,546	2,360	*2,254*	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	*786*	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**	1,489	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	1,451	76.2
Foundry and machine-shop products	18,635	19,090	18,848	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	**1,872**	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	*3,833*	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	2,659	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	*2,098*	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	*3,218*	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	*799*	825	864	909	937	1,042	1,088	1,095	1,119	**1,154**	1,138	69.2
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	*561*	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	**608**	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	74.1
Tobacco, cigars and cigarettes	552	567	563	561	555	545	*529*	518	521	*516*	567	582	**600**	86.0
Woolen and worsted goods	587	545	*458*	506	552	577	604	617	634	634	**646**	636	635	70.9

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	*3,982*	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	2,634	*2,031*	2,117	2,229	2,348	2,458	2,591	3,009	3,288	3,789	**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	*11,730*	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**	85.6
STEVENS POINT	1,231	1,133	*1,108*	1,111	1,175	1,195	1,277	1,340	1,310	1,286	1,281	1,300	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	*5,546*	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	899	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	34	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	599	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 b ilding	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	3,500
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	58,727
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	2,005	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	80	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	160	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	2,932
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	326	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		36,452			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	311,337	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	[3] 6	13.8	19.4	466	[3] 1,428	10.0	82.9	2,871,920	[3] 3,723,353	11.8	86.1	1,362,449	[3] 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	[3] 5,419	14.2	93.9	5,144,512	7,307,640	11.6	41.4	1,817,628	[3] 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	149,378	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	705,472	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	42,001	(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	6,307,560	[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	1,072,984	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	5,011,232	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	24,080,840	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	7,852,954	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	2,586,893	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	13,292,305	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	770,347	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] 1,788,732	12.6	28.5
$500,000 to $1,000,000	6	3	8.3	4.4	875	.....	10.0	.....	3,559,629	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	5,839	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] 858	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	63,681	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	37,404,041	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	588	[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	3,912,908	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	850	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	14,374,955	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	2,548	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	9,410	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	3,156,425	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	5,409,250	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	1,405	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; Paper and wood pulp; Shipbuilding, steel; Soap; Stamped and enameled ware, not elsewhere specified; Steam packing; Stoves, gas and oil; Tobacco, smoking, and snuff	(3)	(3)	(3)	(3)
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; Rubber tires, tubes, and rubber goods, not elsewhere specified; Shirts; Springs, steel, automobile, not made in steel works or rolling mills	(3)	(3)	(3)	(3)

[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	5,249,782	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	102	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	195,584	.....	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	2,666	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, currried, 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	.....	26,334	300	.....	.....	.....
All other industries	13,713	370,147	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	680	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 eleven 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	$10,840,581	$7,494,186	$7,713,163
Cream sold:			
Pounds	30,892,435	7,449,330	4,490,508
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	480,201,900	149,682,530	30,573,886
Value	$65,587,293	$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	365,806,691	62,071,127	
Value	$48,676,980	$3,924,238	
Powdered milk:			
Pounds	36,753,152	3,596,145	(2)
Value	$3,679,490	$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	$80,903,939	$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	$12,379,896
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	$35,398	$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 1185 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	$3,853,194	$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	$1,035,564	$872,869	$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
Newspaper:			
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 newspaper, 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.....	$58,304,432	$28,697,413	$31,667,434
Wheat flour:			
Barrels.....	2,800,320	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	12,707,800
Value.....	$1,021,825	$1,533,907	$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	10,490,408	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	973,948	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	2,520	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	$2,633,047	$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; percentage 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.

THE STATE—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.		
All industries	1919	10,393	263,949	878,682	290,441	1,127,275	1,846,984
	1914	9,104	194,310	682,339	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	24,389
	1914	100	2,429	2,990	936	4,501	7,243
Cooperage and wooden goods, not elsewhere specified.	1919	29	1,098	3,628	1,046	1,968	4,300
	1914	35	638	2,227	344	690	1,213
	1909	48	1,208	3,658	618	1,119	2,393
Copper, tin, and sheet-iron products.[3]	1919	207	4,814	8,233	5,590	14,631	30,209
	1914	111	3,372	3,947	1,930	5,583	10,202
	1909	105	2,780	2,325	1,188	4,656	7,136
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	285
Dairymen's, poultrymen's, and apiarists' supplies.	1919	38	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	28,697
	1909	322	1,184	31,903	695	27,038	31,667
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	648
	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	13,292
	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	3,011	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	35,830
	1914	132	5,414	28,326	3,913	13,703	40,834
	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	56,363
	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	332	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	1,065	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	8,599	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."

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	22,893
	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	27,082
	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	96,052
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	21,165
	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	6,089	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	(3)	(3)	(3)	(3)	(3)	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	Se 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	27,052,012
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	.....	1,304,390
23	Building brick	39	435	36	29	5	4	361	Je 649	Fe 81	575	565	1	9	.....	1,451,052
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 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	490	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.								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.[2]		
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	394,710	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	5,963	2
299,028	396,486	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	4,065	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	21,048	26,612	15,660	602,248	9,269	1,406,875	795,358	189	.....	.....	.....	.....	189	.....	12
22,986	9,796	187,114	.....	3,942	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
63,080	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	236,649	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	.....	2,369	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	2,163,862	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	88,571	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	85,796	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	5,700	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
41,111	36,995	119,140	5,661	6,256	8,963	677,844	5,260	973,904	290,800	49	.....	.....	.....	.....	49	.....	53
235,727	339,830	1,418,698	.....	5,419	85,058	2,042,606	203,575	4,983,214	2,737,033	3,094	723	1,500	.....	.....	871	1,800	54
40,680	23,491	167,392	.....	9,390	45,343	2,837,430	17,934	3,463,941	608,577	566	75	.....	.....	.....	491	.....	55
106,752	132,947	420,721	.....	840	179,477	1,036,350	25,714	2,663,135	1,601,071	1,112	731	.....	12	.....	369	85	56
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	10,389	7,277	863	.....	180	2,069	2,963	57
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	5,910	1,704	18	20	.....	4,168	692	58
558,412	977,978	2,313,668	7,799	84,520	1,198,724	11,306,105	124,592	19,909,896	8,479,193	2,789	1,495	.....	2	.....	1,292	692	59
168,191	56,997	430,070	4,910	18,364	123,895	2,886,492	102,369	4,478,727	1,489,866	3,121	209	18	18	.....	2,876	.....	60
55,784	6,587	288,108	.....	13,048	40,268	706,223	21,471	1,236,171	508,477	1,020	780	.....	.....	.....	240	.....	61
49,461	5,587	249,797	.....	12,842	38,792	637,232	14,518	1,090,433	438,683	700	460	.....	.....	.....	240	.....	62
6,323	1,000	38,311	.....	206	1,476	68,991	6,953	145,738	69,794	320	320	.....	.....	.....	.....	.....	63

[3] No figures given for reasons stated under "Explanation of terms."
[4] 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	.....	.....	228,810
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	35	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	8,051,171
17	Foundry and machine-shop products.	429	22,374	247	1,218	1,487	787	18,635	.....	.....	.....	.....	20,766	20,059	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	1,959	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	6,539	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	215	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	.....	399,469
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	60,683,631
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	.....	1,063,353
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.										POWER.							
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	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.[2]		
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	1,401,250	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	9,601,101	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	486,955	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	21,309	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	780,407	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	20,54 ,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

[3] Same number reported throughout the year.
[4] 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 81	Jy [3] 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 elsewhere 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	.....	.....	1,033,542
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	2,203	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	2,836,386
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.								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.[2]		
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	581,975	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	88,125	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

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	Washing machines and clothes wringers.	5	95	.....	9	12	6	68	De	93	Ja	56	101	101	.....	.....	.....	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	21	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.	
											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.[2]		
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	50,251	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	51,710,107	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	.....	1,330,956
5	Awnings, tents, and sails	8	76	7	8	6	4	51	Je 68	Ja [3] 37	47	24	23	.....	.....	199,685
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	.....	.....	.....	3,005,255
28	Food preparations, not elsewhere specified.	21	429	13	30	24	8	354	.....	.....	439	262	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	.....	43,109,956
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	.....	.....	6,132,703
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.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
15,288,918	15,521,087	89,921,118	858,104	1,732,944	28,740,147	328,285,698	13,482,515	576,161,312	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
48,032	24,223	603,298	3,292	83,228	47,353	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	154,955	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	905,951	513	55,006	105,497	1,950,205	23,580	4,026,562	2,052,776	629	180	.....	.....	.....	449	248	8
148,990	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	77,810	1,529,555	66,298	2,952,372	1,356,519	673	350	.....	.....	.....	323	72	10
204,630	300,900	1,417,599	885	71,731	263,476	6,834,690	194,436	11,308,930	4,279,804	974	169	.....	14	.....	791	2	11
.....	520	55,642	.....	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	2,032,351	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	14,837,151	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	4,552	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	5,262	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
1,032,873	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	493,527	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

CITIES OF 50,000 INHABITANTS OR MORE—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.
	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 [3]	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	.....	245,566
7	Patent and proprietary compounds, not elsewhere specified.	8	39	8	8	5	6	12	Au [3]	14	Jy	10	14	13	.....	1	.....	88,541
8	Photo-engraving	5	115	3	6	11	5	90	Jy [3]	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	.....	.....	887,041
10	Printing and publishing, book and job	122	2,049	94	179	127	105	1,544	.....		.....		1,847	1,287	500	42	18	3,868,295
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 [3]	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	1,440,410
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	.....	.....	934,106
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	.....	.....	6,631,240
21	Statuary and art goods	9	63	5	8	1	1	48	De	57	Mh	37	56	54	.....	2	.....	199,530
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 [3]	6	Ja [3]	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.										POWER.							
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	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.[2]		
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	11,206	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	1,341	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	172,037	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	718	.....	.....	.....	.....	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	238,028	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	23,035	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
31,151	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
.....	.....	4,634	.....	232	106	12,594	827	32,219	18,798	25	.....	.....	.....	.....	25	.....	32
3,442,251	3,911,500	25,180,121	111,396	317,450	7,290,9 3	81,556,447	7,848,125	145,915,661	56,501,689	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 elsewhere specified..... 2
Musical instruments and materials, not elsewhere 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 enameld 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 [3] 24	27	27	.....	.....	.....	56,113
5	Boots and shoes	8	534	1	16	17	24	476	De 611	My [3] 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	3,894	53	296	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.								Value of products.	Value added by manufacture.	POWER.							
Salaries and wages.				Rent and taxes.		For materials.					Primary horsepower.						Electric horsepower generated in establishments reporting.
												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.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]		

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

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	393,649	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	469	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	2,560,516	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

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

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES

MANUFACTURES: 1919

WYOMING

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

CONTENTS

	Page
EXPLANATION OF TERMS	2
GENERAL STATISTICS	
General character of the state	3
Comparative summary	4
Statistics for the state, by counties	4
Principal industries, ranked by value of products	5
Persons engaged in manufacturing industries	5
Average number of wage earners for selected industries, with per cent, by sex and age	5
Average number of wage earners, by sex and age and value of products, for cities of 10,000 inhabitants or more	5
Wage earners, by months	6
Wage earners, by months, for selected industries and cities	6
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities	6
Size of establishments, by average number of wage earners, for selected industries	7
Size of establishments, by value of products	7
Size of establishments, by value of products, for selected industries	7
Size of establishments, by value of products, for Cheyenne	8
Character of ownership for selected industries and for Cheyenne	8
Manufactures, by population groups, in cities of 10,000 inhabitants or more	8
Number and horsepower of types of prime movers	9
Fuel consumed	9
SPECIAL STATISTICS	
Flour-mill and gristmill products	10
Butter	10
Laundries	10
Dyeing and cleaning	10
GENERAL TABLES	
Table 22.—Comparative summary for selected industries: 1919, 1914, and 1909	11
Table 23.—Detailed statement of all industries combined and for specified industries: 1919	12

WASHINGTON

GOVERNMENT PRINTING OFFICE

1921

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 bulletin 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.

WYOMING.

GENERAL STATISTICS.

General character of the state.—Wyoming has a gross area of 97,914 square miles, of which 97,548 represent land surface. The inhabitants of the state in 1900 numbered 92,531; in 1910, 145,965; and in 1920, 194,402. In both total population and density of population Wyoming ranked forty-seventh in 1920. The number of inhabitants per square mile in 1910 was 1.5, the corresponding figure for 1920 being 2.

There were in the state in 1920 only two cities having more than 10,000 inhabitants—Casper and Cheyenne. These two cities, with a combined population of 25,276, formed 13 per cent of the total population for Wyoming and reported 59.4 per cent of the value of the state's manufactured products in 1919.

Importance and growth of manufactures.—The abnormal increases in wages, cost of materials, and the value of products as presented in Table 1, being largely due to the change in industrial conditions produced by the World War, can not properly be used to measure the growth of manufactures during the census period 1914 to 1919. However, the large increases in number of establishments, number of wage earners, and horsepower are significant evidences of the growth of the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the great increase shown in "rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for other censuses with those for 1919. The statistics for this census, however, show that the combined value of products of three counties, Big Horn, Converse, and Natrona, represent 77.8 per cent of the total for the 21 counties in the state, due to the great increase in the petroleum-refining industry.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading as to their real importance from a manufacturing standpoint. Of the industries shown in the table, flour-mill and gristmill products, for instance, which ranked third in value of products, ranked sixth in value added by manufactures and eighth in average number of wage earners.

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 23.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 100 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: 1919, 1914, and 1909 (Table 6).—Casper is shown for the first time by the census of 1920 as having 10,000 inhabitants or more; therefore comparative statistics are not available.

Wage earners, by months (Table 7).—The statistics for wage earners 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 and for the two cities. There was no industry in the state in which female wage earners predominated; in fact, the 89 shown for this sex formed but 1.3 per cent of the total number of wage earners reported.

Prevailing hours of labor (Table 9).—The figures presented in this table indicate a lengthening of the hours of labor during the last census period. This condition is due to a change reported in the working hours of wage earners employed in the industry "cars and general shop construction and repairs by steam-railroad companies" and a great increase in the number of wage earners in the petroleum refineries. In the former industry 2,728 wage earners in 1919 and 11 in 1914 were reported as working more than 54 hours per week, while in the petroleum refineries all of the wage earners were reported in the group between 54 and 60 hours. In 1914 the prevailing hours of labor for the petroleum industry were reported as 60 and over, but the number of wage earners at that census was only 230.

Size of establishments, by average number of wage earners, for selected industries (Table 10).—The extent to which the small establishments predominated in the state is shown in this table. Less than 1 per cent of the total number employed more than 250 wage earners each, while 84.9 per cent employed less than 6 wage earners.

Size of establishments, by value of products (Table 11).—In order to avoid the possibility of disclosing the operations of individual establishments it was found necessary to omit the separate showing of groups of over $100,000 and combine them as a whole in one class, "$100,000 and over."

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in several instances for 1914 to combine the establishments of one group with those of another group, to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for Cheyenne (Table 13).—This table very strikingly illustrates the fact that the number of establishments of itself is no real index of manufacturing activities. Statistics for Casper can not be shown by groups without the possibility of disclosing individual operations.

Character of ownership (Table 14).—It will be noted that although the establishments under corporate ownership formed 30.3 per cent of the total in 1914 and only 28.6 per cent in 1919, this group shows an increase of 1.6 per cent in proportion of wage earners and 9.9 per cent in value of products during the five-year period.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows the centralization of the large establishments in Casper and Cheyenne. In 1919 these cities had only 16 per cent of the total number of establishments in the state, but reported 49.5 per cent of the average number of wage earners and 59.4 per cent of the value of products.

Number and horsepower of types of prime movers (Table 16).—Although both the owned and rented power increased from census to census, the increase for rented power was much the greater, being 538.2 per cent as compared with 17.4 per cent for owned power for the five-year period 1914–1919.

Fuel consumed (Table 17).—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.

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	576	337	268	169	139	70.9	25.7	58.6	21.6
Persons engaged	8,095	3,696	3,393	2,163	(2)	119.0	8.9	56.9	.....
Proprietors and firm members	567	293	263	150	(2)	93.5	11.4	75.3	.....
Salaried employees	894	414	263	179	87	115.9	57.4	46.9	.....
Wage earners (average number)	6,634	2,989	2,867	1,834	2,060	121.9	4.3	56.3	−11.0
Primary horsepower	17,869	10,004	7,628	3,604	3,820	78.6	31.1	111.7	−5.7
Capital	$82,287,667	$29,270,117	$6,195,109	$2,695,889	$2,047,883	181.1	372.5	129.8	31.6
Salaries and wages	12,891,267	2,842,738	2,391,436	1,467,428	1,299,770	353.5	18.9	63.0	12.9
Salaries	1,702,288	530,984	310,673	206,306	90,647	220.6	70.9	50.6	127.6
Wages	11,188,979	2,311,754	2,080,763	1,261,122	1,209,123	384.0	11.1	65.0	4.3
Paid for contract work	629,174	39,199	19,655	103,589	(2)	1,505.1	99.4	−81.0	.....
Rent and taxes	5,382,384	209,632	89,414	[3] 34,474	(2)	2,467.5	134.4	.....	.....
Cost of materials	42,250,528	5,559,387	2,608,189	1,300,773	1,369,730	660.0	113.2	100.5	−5.0
Value of products	81,445,394	11,223,415	6,249,078	3,523,260	3,268,555	625.7	79.6	77.4	7.8
Value added by manufacture [4]	39,194,866	5,664,028	3,640,889	2,222,487	1,898,825	592.0	55.6	63.9	17.0

[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	576	6,634	$11,188,979	$5,382,384	$42,250,528	$81,445,394	$39,194,866	17,869
Albany	45	695	993,370	24,204	1,514,343	3,047,515	1,533,172	1,391
Big Horn	38	530	862,230	1,714,189	8,221,718	18,105,441	9,883,723	1,952
Campbell	7	7	8,788	1,416	30,626	54,951	24,325	16
Carbon	36	367	715,256	63,206	867,761	1,923,830	1,056,069	907
Converse and Natrona [1]	65	1,949	3,777,239	3,384,521	25,360,448	45,258,294	19,897,846	1,729
Crook	18	16	11,826	1,968	62,067	104,168	42,101	452
Fremont	42	140	216,834	9,843	197,555	539,740	342,185	466
Goshen	9	10	11,469	2,361	19,618	54,782	35,164	80
Hot Springs	14	27	48,507	6,530	73,394	165,174	91,780	55
Johnson	17	22	32,348	5,540	106,046	190,072	84,026	290
Laramie	59	1,409	2,286,918	49,817	1,975,368	4,799,657	2,824,289	4,431
Lincoln	51	81	132,291	6,549	552,076	832,516	280,440	691
Niobrara	20	30	46,030	8,144	81,290	194,970	113,680	120
Park	28	37	42,598	7,589	220,080	360,637	140,557	459
Platte	22	72	63,536	3,381	294,587	434,306	139,719	351
Sheridan	43	652	848,723	53,434	1,563,116	2,762,610	1,199,494	1,635
Sweetwater	32	318	604,816	20,245	568,081	1,391,629	823,548	1,517
Uinta	15	232	439,126	10,757	329,171	923,598	594,427	998
Washakie	8	29	29,169	5,876	81,515	129,913	48,398	213
Weston	7	11	17,905	2,814	131,668	171,591	39,923	116

[1] Converse and Natrona Counties combined to avoid disclosure of individual operations.

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	576	6,634	100.0	$81,445	100.0	$39,195	100.0
Cars and general shop construction and repairs by steam-railroad companies	16	3,057	46.1	9,111	11.2	5,855	14.9
Automobile repairing	139	363	5.5	1,660	2.0	1,053	2.7
Flour-mill and gristmill products	28	37	0.6	1,411	1.7	228	0.6
Printing and publishing, newspapers and periodicals	81	210	3.2	1,078	1.3	858	2.2
Bread and other bakery products	61	103	1.6	1,074	1.3	389	1.0
Lumber and timber products	58	322	4.8	1,025	1.3	883	2.3
Butter	13	35	0.5	949	1.2	160	0.4
Food preparations, not elsewhere specified	4	48	0.7	349	0.4	84	0.2
Confectionery and ice cream	18	23	0.3	223	0.3	107	0.3
Lumber, planing-mill products, not including planing mills connected with sawmills	25	39	0.6	204	0.3	119	0.3
All other industries *	133	2,397	36.1	64,361	79.0	29,459	75.2

* Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: Cheese; petroleum refining; shirts; sugar, beet; and wood preserving.

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	8,095	7,787	308	96.2	3.8
	1914	3,696	3,578	118	96.8	3.2
	1909	3,393	3,313	80	97.6	2.4
Proprietors and officials	1919	908	887	21	97.7	2.3
	1914	432	417	15	96.5	3.5
	1909	370	361	9	97.6	2.4
Proprietors and firm members	1919	567	551	16	97.2	2.8
	1914	293	278	15	94.9	5.1
	1909	263	257	6	97.7	2.3
Salaried officers of corporations	1919	40	39	1	97.5	2.5
	1914	31	31	.....	100.0	.....
	1909	19	19	.....	100.0	.....
Superintendents and managers	1919	301	297	4	98.7	1.3
	1914	108	108	.....	100.0	.....
	1909	88	85	3	96.6	3.4
Clerks and other subordinate salaried employees.	1919	553	355	198	64.2	35.8
	1914	275	228	47	82.9	17.1
	1909	156	131	25	84.0	16.0
Wage earners (average number)	1919	6,634	6,545	89	98.7	1.3
	1914	2,989	2,933	56	98.1	1.9
	1909	2,867	2,821	46	98.4	1.6
16 years of age and over	1919	6,599	6,511	88	98.7	1.3
	1914	2,981	2,927	54	98.2	1.8
	1909	2,855	2,810	45	98.4	1.6
Under 16 years of age	1919	35	34	1	97.1	2.9
	1914	8	6	2	75.0	25.0
	1909	12	11	1	91.7	8.3

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	6,634	98.1	1.3	0.5
	1914	2,989	97.9	1.8	0.3
	1909	2,867	98.0	1.6	0.4
Automobile repairing	1919	363	99.4	.....	0.6
	1914	19	100.0	.....	.....
Bread and other bakery products	1919	103	75.7	22.3	1.9
	1914	57	82.5	15.8	1.7
Cars and general shop construction and repairs by steam-railroad companies.	1919	3,057	99.9	0.1	.....
	1914	1,722	100.0	.....	.....
Lumber and timber products	1919	322	100.0	.....	.....
	1914	356	100.0	.....	.....
Printing and publishing, newspapers and periodicals.	1919	210	77.1	10.0	12.9
	1914	170	82.9	13.5	3.5
All other industries	1919	2,579	98.3	1.5	0.2
	1914	665	96.5	3.3	0.2

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.

	CASPER.	CHEYENNE.		
	1919	1919	1914	1909
Wage earners (average number)	1,886	1,401	821	853
16 years of age and over	1,875	1,400	821	852
Male	1,861	1,388	808	845
Female	14	12	13	7
Under 16 years of age	11	1	.....	1
Value of products	$43,589,560	$4,749,164	$1,607,638	$1,577,023

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	5,876	2,663	2,496	77.7	79.4	79.6	July	6,885	3,230	2,957	91.1	96.4	94.3
February	*5,804*	*2,641*	*2,481*	76.8	78.8	79.1	August	7,216	**3,352**	3,042	95.4	100.0	97.0
March	5,853	2,815	2,642	77.4	84.0	84.2	September	7,127	3,347	3,132	94.3	99.9	99.8
April	5,939	2,736	2,642	78.6	81.6	84.2	October	7,509	3,279	3,031	99.3	97.8	96.6
May	5,996	2,646	2,783	79.3	78.9	88.7	November	**7,560**	3,207	**3,137**	100.0	95.7	100.0
June	6,409	2,882	2,983	84.8	86.0	95.1	December	7,434	3,070	3,065	98.3	91.6	97.7

[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	6,634	5,876	*5,804*	5,853	5,939	5,996	6,409	6,885	7,216	7,127	7,509	**7,560**	7,434	76.8
Males	6,545	5,800	*5,726*	5,775	5,860	5,911	6,324	6,799	7,125	7,042	7,389	7,446	7,343	76.9
Females	89	*76*	78	78	79	85	85	86	91	85	120	114	91	63.3
Automobile repairing	363	*277*	281	301	337	358	410	446	**451**	421	384	352	338	61.4
Bread and other bakery products	103	*92*	*92*	95	95	98	103	115	**117**	110	109	106	104	78.6
Cars and general shop construction and repairs by steam-railroad companies	3,057	3,079	3,024	2,983	2,827	*2,675*	2,730	2,835	3,075	3,144	3,342	3,448	**3,492**	76.6
Lumber and timber products	322	*285*	312	332	313	305	325	**351**	342	330	320	311	338	81.2
Printing and publishing, newspapers and periodicals	210	185	*181*	189	193	198	202	216	226	228	223	236	**243**	74.5
All other industries	2,579	1,958	*1,914*	1,953	2,174	2,362	2,639	2,892	3,005	2,894	**3,131**	3,107	2,919	61.1
Total for cities	3,287	2,785	2,692	*2,682*	2,795	2,869	3,163	3,426	3,737	3,701	3,764	3,855	**3,975**	67.5
Males	3,261	2,758	2,665	*2,656*	2,769	2,841	3,135	3,399	3,711	3,676	3,740	3,831	**3,951**	67.2
Females	26	27	27	26	26	28	28	27	26	25	*24*	*24*	*24*	85.7
CASPER	1,886	1,359	*1,326*	1,357	1,556	1,688	1,916	**2,116**	**2,336**	2,279	2,181	2,198	2,320	56.8
Males	1,872	1,345	*1,312*	1,343	1,542	1,674	1,902	2,102	**2,322**	2,265	2,167	2,184	2,306	56.5
Females	14	14	14	14	14	14	14	14	14	14	14	14	14	.....
CHEYENNE	1,401	1,426	1,366	1,325	1,239	*1,181*	1,247	1,310	1,401	1,422	1,583	**1,657**	1,655	71.3
Males	1,389	1,413	1,353	1,313	1,227	*1,167*	1,233	1,297	1,389	1,411	1,573	1,647	1,645	70.9
Females	12	13	13	12	12	14	14	13	12	11	*10*	*10*	*10*	71.4

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	6,634	24	1	851	28	524	4,195	295	716
	1914	2,989	(2)	(2)	1,622	35	447	26	644	215
	1909	2,867	(2)	(2)	228	34	203	19	782	1,601
Automobile repairing	1919	363	2	.....	57	10	233	9	38	14
	1914	19	.....	.....	.....	.....	12	.....	2	5
Bread and other bakery products	1919	103	7	.....	30	.....	26	18	17	5
	1914	57	(2)	(2)	19	.....	11	3	17	7
Cars and general shop construction and repairs by steam-railroad companies.	1919	3,057	.....	.....	176	.....	153	2,222	8	498
	1914	1,722	(2)	(2)	1,406	.....	305	.....	11	.....
Lumber and timber products	1919	322	.....	1	129	.....	26	82	68	16
	1914	356	(2)	(2)	6	.....	8	1	341	.....
Printing and publishing, newspapers and periodicals	1919	210	2	.....	187	2	18	.....	1	.....
	1914	170	(2)	(2)	117	25	20	1	7	.....
All other industries	1919	2,579	13	.....	272	16	68	1,864	163	183
	1914	665	(2)	(2)	74	10	91	21	266	203
Total for cities	1919	3,287	12	.....	316	.....	251	2,705	1	2
	1914	821	(2)	(2)	750	.....	35	25	7	4
CASPER	1919	1,886	.....	.....	154	.....	215	1,514	1	2
CHEYENNE	1919	1,401	12	.....	162	.....	36	1,191	.....	.....
	1914	821	(2)	(2)	750	.....	35	25	7	4

[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	576	6,634	112	377	668	63	650	6	186	7	468	6	1,170	3	1,260	.....	.....	2	2,232
Automobile repairing	139	363	16	107	230	16	133	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bread and other bakery products	61	103	18	39	65	4	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies	16	3,057	.....	2	6	4	42	.....	.....	3	210	4	794	2	842	.....	.....	1	1,163
Lumber and timber products	58	322	7	44	61	3	42	2	84	2	135	.....	.....	.....	.....	.....	.....	.....	.....
Printing and publishing, newspapers and periodicals	81	210	20	52	90	8	98	1	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
All other industries	221	2,579	51	133	216	28	297	3	80	2	123	2	376	1	418	.....	.....	1	1,069
Total for cities	92	3,287	9	52	85	25	246	.....	.....	2	153	1	153	1	418	.....	.....	2	2,232
CASPER	43	1,886	3	23	33	13	123	.....	.....	1	90	1	153	1	418	.....	.....	1	1,069
CHEYENNE	49	1,401	6	29	52	12	123	.....	.....	1	63	.....	.....	.....	.....	.....	.....	1	1,163

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	576	337	268	6,634	2,989	2,867	$81,445,394	$11,223,415	$5,249,078	$39,194,866	$5,664,028	$3,640,889
Less than $5,000	195	199	141	103	200	161	496,813	467,996	343,444	317,442	318,503	242,297
$5,000 to $20,000	235	88	86	447	239	231	2,446,419	811,213	771,778	1,455,856	463,398	489,792
$20,000 to $100,000	108	32	24	660	300	260	4,368,998	1,326,473	913,075	2,094,695	593,063	494,471
$100,000 and over	38	18	17	5,424	2,250	2,215	74,133,164	8,617,733	4,220,781	35,326,873	4,289,064	2,414,329
	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	33.9	59.1	52.6	1.6	6.7	5.6	0.6	4.2	5.5	0.8	5.6	6.7
$5,000 to $20,000	40.8	26.1	32.1	6.7	8.0	8.1	3.0	7.2	12.4	3.7	8.2	13.5
$20,000 to $100,000	18.7	9.5	9.0	9.9	10.0	9.1	5.4	11.8	14.6	5.3	10.5	13.6
$100,000 and over	6.6	5.3	6.3	81.8	75.3	77.3	91.0	76.8	67.5	90.1	75.7	66.3

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
AUTOMOBILE REPAIRING	139	6	100.0	100.0	363	19	100.0	100.0	$1,660,287	$30,002	100.0	100.0	$1,053,428	$25,624	100.0	100.0
Less than $5,000	38	3	27.3	50.0	24	10	6.6	52.6	113,742	11,102	6.9	37.0	75,383	9,514	7.2	37.1
$5,000 to $20,000	80	3	57.6	50.0	201	9	55.4	47.4	850,239	18,900	51.2	63.0	545,465	16,110	51.8	62.9
$20,000 to $100,000	21	.....	15.1	.....	138	.....	38.0	.....	696,306	.....	41.9	.....	432,580	.....	41.1	.....
BREAD AND OTHER BAKERY PRODUCTS	61	47	100.0	100.0	103	57	100.0	100.0	1,073,960	313,225	100.0	100.0	388,508	126,726	100.0	100.0
Less than $5,000	13	30	21.3	63.8	3	10	2.9	17.5	38,001	83,099	3.5	26.5	13,374	38,449	3.4	30.3
$5,000 to $20,000	30	14	49.2	29.8	24	32	23.3	56.1	311,389	135,280	29.0	43.2	116,690	54,927	30.0	43.3
$20,000 and over	18	3	29.5	6.4	76	15	73.8	26.3	724,570	94,846	67.5	30.3	258,444	33,350	66.5	26.3
FLOUR-MILL AND GRISTMILL PRODUCTS	28	16	100.0	100.0	37	33	100.0	100.0	1,411,284	721,818	100.0	100.0	228,364	167,097	100.0	100.0
Less than $5,000	5	3	17.8	18.8	.....	1	.....	3.0	15,077	6,745	1.1	0.9	2,298	1,350	1.0	0.8
$5,000 to $20,000	8	7	28.6	43.8	2	6	5.4	18.2	91,203	102,191	6.5	14.2	21,784	21,933	9.5	13.1
$20,000 to $100,000	11	[1] 6	39.3	37.5	10	[1] 26	27.0	78.8	514,617	[1] 612,882	36.5	84.9	83,404	[1] 143,814	36.5	86.1
$100,000 to $500,000	4	.....	14.3	.....	25	.....	67.6	.....	790,387	.....	56.0	.....	120,878	.....	52.9	.....
LUMBER AND TIMBER PRODUCTS	58	66	100.0	100.0	322	356	100.0	100.0	1,024,919	691,184	100.0	100.0	883,050	566,477	100.0	100.0
Less than $5,000	39	55	67.2	83.3	29	68	9.0	19.1	79,649	105,223	7.8	15.2	67,665	86,740	7.7	15.3
$5,000 to $20,000	11	8	19.0	12.1	28	24	8.7	6.7	75,348	55,853	7.4	8.1	61,488	46,252	7.0	8.2
$20,000 to $100,000	4	[1] 3	6.9	4.5	61	[1] 264	18.9	74.2	155,733	[1] 530,108	15.2	76.7	134,664	[1] 433,485	15.2	76.5
$100,000 to $500,000	4	.....	6.9	.....	204	.....	63.4	.....	714,189	.....	69.7	.....	619,233	.....	70.1	.....
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS	81	76	100.0	100.0	210	170	100.0	100.0	1,078,443	497,624	100.0	100.0	857,772	412,296	100.0	100.0
Less than $5,000	31	49	38.3	64.5	13	51	6.2	30.0	73,598	111,532	6.8	22.4	57,221	91,088	6.7	22.1
$5,000 to $20,000	39	23	48.1	30.3	70	69	33.3	40.6	415,240	194,832	38.5	39.2	332,229	161,920	38.7	39.3
$20,000 to $100,000	11	4	13.6	5.3	127	50	60.5	29.4	589,605	191,260	54.7	38.4	468,322	159,288	54.6	38.6

[1] Includes the group "$100,000 to $500,000."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CHEYENNE: 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.
CHEYENNE	49	1,401	100.0	$4,749,164	100.0	$2,790,872	100.0
Less than $5,000	12	6	0.4	38,179	0.8	22,733	0.8
$5,000 to $20,000	16	27	1.9	150,336	3.2	86,539	3.1
$20,000 to $100,000	16	106	7.6	613,996	12.9	372,067	13.3
$100,000 and over	5	1,262	90.1	3,946,653	83.1	2,309,533	82.8

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CHEYENNE: 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	296	165	115	6,634	461	6,014	159	6.9	90.7	2.4	$81,445,394	$2,899,804	$77,333,678	$1,211,912	3.6	95.0	1.5
	1914	186	102	49	2,989	265	2,664	60	8.9	89.1	2.0	11,223,415	1,047,357	9,553,365	622,693	9.3	85.1	5.5
	1909	151	67	50	2,867	378	2,409	80	13.2	84.0	2.8	6,249,078	924,993	4,664,220	659,865	14.8	74.6	10.6
Automobile repairing	1919	60	30	49	363	137	149	77	37.7	41.0	21.2	1,660,287	610,193	641,624	408,470	36.8	38.6	24.6
	1914	2	3	1	19	[1] 6	13	.....	31.6	68.4	.....	30,002	[1] 15,300	14,702	.....	51.0	49.0	.....
Bread and other bakery products.	1919	47	4	10	103	67	22	14	65.0	21.4	13.6	1,073,960	692,658	183,231	198,071	64.5	17.1	18.4
	1914	36	3	8	57	44	9	4	77.2	15.8	7.0	313,225	235,582	43,063	34,580	75.2	13.7	11.0
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	16	.....	3,057	.....	3,057	.....	.....	100.0	.....	9,111,184	.....	9,111,184	.....	.....	100.0	.....
	1914	.....	12	.....	1,722	.....	1,722	.....	.....	100.0	.....	2,469,129	.....	2,469,129	.....	.....	100.0	.....
Flour-mill and gristmill products.	1919	8	15	5	37	3	33	1	8.1	89.2	2.7	1,411,284	205,048	1,096,958	109,278	14.5	77.7	7.7
	1914	6	8	2	33	[1] 12	21	.....	36.4	63.6	.....	721,818	[1] 417,896	303,922	.....	57.9	42.1	.....
Lumber and timber products.	1919	36	9	13	322	59	248	15	18.3	77.0	4.7	1,024,919	152,212	825,088	47,619	14.9	80.5	4.6
	1914	46	7	13	356	61	278	17	17.1	78.1	4.8	691,184	106,481	555,684	29,019	15.4	80.4	4.2
Printing and publishing, newspapers and periodicals.	1919	46	24	11	210	53	143	14	25.2	68.1	6.7	1,078,443	279,204	704,377	94,862	25.9	65.3	8.8
	1914	36	28	12	170	51	103	16	30.0	60.6	9.4	497,624	128,395	334,183	35,046	25.8	67.2	7.0
CHEYENNE	1919	24	16	9	1,401	45	1,341	15	3.2	95.7	1.1	4,749,164	299,193	4,341,269	108,702	6.3	91.4	2.3
	1914	12	18	2	821	[1] 25	796	.....	3.0	97.0	.....	1,607,638	[1] 74,408	1,533,230	.....	4.6	95.4	.....

[1] Includes the group "All others."

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

	Census year.	Total.	CITIES HAVING A POPULATION OF 10,000 OR OVER. 10,000 to 25,000.		THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Number or amount.	Per cent of total.	Number or amount.	Per cent of total.
Number of places	1919	.....	2	.....	.....	.....
	1914	.....	1	.....	.....	.....
	1909	.....	1	.....	.....	.....
Population [1]	1920	194,402	25,276	13.0	169,126	87.0
	1915	168,736	[2] 11,320	6.7	157,416	93.3
	1910	145,965	11,320	7.8	134,645	92.2
Number of establishments	1919	576	92	16.0	484	84.0
	1914	337	32	9.5	305	90.5
	1909	268	22	8.2	246	91.8
Average number of wage earners	1919	6,634	3,287	49.5	3,347	50.5
	1914	2,989	821	27.5	2,168	72.5
	1909	2,867	853	29.8	2,014	70.2
Value of products	1919	$81,445,394	$48,338,724	59.4	$33,106,670	40.6
	1914	11,223,415	1,607,638	14.3	9,615,777	85.7
	1909	6,249,078	1,577,023	25.2	4,672,055	74.8
Value added by manufacture	1919	39,194,866	22,194,688	56.6	17,000,178	43.4
	1914	5,664,028	939,043	16.6	4,724,985	83.4
	1909	3,640,889	969,949	26.6	2,670,940	73.4

[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.
[2] Population as of Apr. 15, 1910; a decrease since 1900; hence no estimate made for 1915.

TABLE 16.—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	1,190	463	268	17,869	10,004	7,628	100.0	100.0	100.0
Owned	292	251	184	10,364	8,828	7,114	58.0	88.2	93.3
Steam	148	156	128	8,255	6,925	6,467	46.2	69.2	84.8
Engines	132	(1)	(1)	7,030	(1)	(1)	39.3		
Turbines	16	(1)	(1)	1,225	(1)	(1)	6.9		
Internal-combustion engines	129	73	37	1,718	1,366	182	9.6	13.6	2.4
Water	15	22	19	391	537	465	2.2	5.4	6.1
Water wheels and turbines	11	20	14	384	534	456	2.1	5.3	6.0
Water motors	4	2	5	7	3	9	(2)	(2)	0.1
Rented	898	212	84	7,505	1,176	514	42.0	11.8	6.7
Electric	898	212	84	7,500	1,176	514	42.0	11.8	6.7
Other				5			(2)		
Electric	1,035	264	108	9,240	1,691	801	100.0	100.0	100.0
Rented	898	212	84	7,500	1,176	514	81.2	69.5	64.2
Generated by establishments reporting	137	52	24	1,740	515	287	18.8	30.5	35.8

[1] Not reported separately. [2] Less than one-tenth of 1 per cent.

TABLE 17.—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).				Natural.	Manufactured.
All industries 1919	70	115,957	2,660	1,281,560	2,132	4,789,067	4,452
1914	102	102,611	638	259,806	(1)	4,552	(2)
Per cent of increase [3]	−31.4	13.0	316.9	394.1	(1)		
Automobile repairing	2	1,717	20	157	327	2,813	543
Bone, carbon, and lamp black (bone black)						3,445,757	
Bread and other bakery products	12	3,061	116			3,718	138
Brick		1,678	1,235	7,133		20,000	
Cars and general shop construction and repairs by steam-railroad companies	28	82,490	52	7,063	55		2,072
Flour-mill and gristmill products		2,539		12	84	2,600	
Gas, illuminating and heating		4,318					
Ice, manufactured				5,714			
Petroleum, refining			968	1,261,132	34	1,248,373	
Printing and publishing, newspapers and periodicals	15	684	1	26	279	644	
Slaughtering and meat packing		2,612					
Wall plaster and composition flooring		8,875					
Wood preserving		1,917			28		
All other industries	13	6,066	268	323	1,325	65,162	
Total for cities	5	39,379	1,355	1,133,190	53	5,600	2,872
CASPER		2,761	1,185	1,132,036	53	5,600	14
CHEYENNE	5	36,618	170	1,154			2,858

[1] Included in total for fuel oils. [2] Included in total for natural gas. [3] A minus sign (−) denotes decrease.

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 two of these industries in Wyoming are here presented.

Flour-mill and gristmill products (Table 18).—Wheat flour is still the leading product, forming 81.8 per cent of the total value of all products for the industry in 1919, as compared with 73.5 per cent in 1914.

TABLE 18.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$1,411,284	$721,818	$746,299
Wheat flour:			
Barrels	103,748	106,189	99,537
Value	$1,154,906	$530,528	$505,294
Rye flour:			
Barrels	313	150	500
Value	$3,518	$792	$2,500
Corn meal and corn flour:			
Barrels	1,072	1,646	1,033
Value	$11,523	$7,829	$4,094
Bran and middlings:			
Tons	3,941	3,803	(1)
Value	$159,641	$83,695	(1)
Feed and offal:			
Tons	1,476	1,415	9,252
Value	$81,696	$42,952	$215,913
Breakfast foods:			
Pounds	.....	16,000	.....
Value	.....	$700	.....
All other cereal products, value	.....	$54,647	.....
All other products, value	.....	$675	$18,498

[1] Included in "Feed and offal."

Butter (Table 19).—This table presents the quantities and values of the various classes of products of 13 butter factories in 1919, of 14 in 1914, and of 4 in 1909.

TABLE 19.—BUTTER: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$949,249	$543,499	$268,862
Butter:			
Pounds	1,222,277	1,405,457	783,585
Value	$765,465	$393,120	$223,525
Packed solid—			
Pounds	38,907	318,431	15,344
Value	$20,699	$86,811	$4,129
Prints or rolls—			
Pounds	1,183,370	1,087,026	768,241
Value	$744,766	$306,309	$219,396
Full-cream cheese:			
Pounds	26,594	199,979	250,719
Value	$9,440	$27,359	$40,115
Cream sold:			
Pounds	1,751	566,449	42,116
Value	$26,259	$68,594	$4,455
All other products, value	$148,085	$54,426	$767

The figures shown for cheese represent only its production as a by-product of these establishments, since the cheese factories can not be shown without disclosing the operations of individual establishments.

Laundries (Table 20).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 20, however, summarizes the statistics for such laundries in the state for 1919 and 1914.

TABLE 20.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1914–1919.
	1919	1914	
Number of establishments	23	18	.....
Persons engaged	412	212	94.3
Proprietors and firm members	19	22	.....
Salaried employees	36	5	.....
Wage earners (average number)	357	185	93.0
Primary horsepower	719	322	123.3
Capital	$424,031	$174,290	143.3
Salaries and wages	346,105	154,168	124.5
Salaries	45,290	6,440	603.3
Wages	300,815	147,728	103.6
Paid for contract work	.....	1,000	.....
Rent and taxes	28,686	7,388	288.3
Cost of materials	148,493	64,501	130.2
Amount received for work done	763,953	238,048	220.9

[1] Percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 21).—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 the hand trades, household industries, etc.

TABLE 21.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments	12
Persons engaged	39
Proprietors and firm members	13
Wage earners (average number)	26
Primary horsepower	53
Capital	$40,646
Wages	31,618
Paid for contract work	150
Rent and taxes	8,651
Cost of materials	16,940
Amount received for work done	110,366

GENERAL TABLES.

Table 22 gives 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 for the city of Cheyenne similar data are shown for all industries combined, for the census years 1919, 1914, and 1909. Certain kindred industries are combined in some instances for comparison with the 1909 figures.

Table 23 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, and the statistics for all industries combined for the cities of 10,000 inhabitants or more.

TABLE 22.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CHEYENNE: 1919, 1914, AND 1909.

INDUSTRY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
All industries	1919	576	6,634	17,869	$11,189	$42,251	$81,445
	1914	337	2,989	10,004	2,312	5,559	11,223
	1909	268	2,867	7,628	2,081	2,608	6,249
Automobile repairing	1919	139	333	837	602	607	1,660
	1914	6	19	29	17	4	30
Bread and other bakery products.	1919	61	103	105	127	685	1,074
	1914	47	57	37	45	186	313
	1909	33	38	31	33	132	239
Brick	1919	10	46	644	74	42	195
	1914	7	47	187	26	12	55
	1909	13	34	129	30	15	70
Butter	1919	13	35	234	54	789	949
	1914	14	42	198	35	400	543
	1909	4	20	79	17	211	269
Cars and general shop construction and repairs by steam-railroad companies.	1919	16	3,057	6,573	5,285	3,257	9,111
	1914	12	1,722	2,924	1,296	1,001	2,469
	1909	9	1,690	1,550	1,309	708	2,337
Confectionery and ice cream	1919	18	23	108	29	115	223
	1914	5	8	5	4	11	23
Flour-mill and gristmill products.	1919	28	37	1,381	49	1,183	1,411
	1914	16	33	1,163	27	555	722
	1909	13	29	885	21	583	746
Lumber and timber products [1].	1919	83	361	1,935	$570	$227	$1,229
	1914	69	364	2,344	225	140	718
	1909	63	648	2,251	314	198	751
Mineral and soda waters	1919	17	12	41	14	50	120
	1914	15	10	36	7	15	50
	1909	14	12	(2)	10	22	56
Printing and publishing	1919	92	234	1,055	329	272	1,227
	1914	81	183	235	157	101	546
	1909	65	162	138	141	90	490
Saddlery and harness	1919	18	21	8	28	92	158
	1914	11	24	7	23	50	103
	1909	10	34	1	28	60	130
Tobacco, cigars	1919	11	20	1	18	34	87
	1914	17	15	.....	11	31	68
	1909	10	18	.....	15	24	61
All other industries	1919	70	2,322	4,947	4,010	34,898	64,001
	1914	37	465	2,839	439	3,053	5,583
	1909	34	182	2,564	163	565	1,100
CHEYENNE	1919	49	1,401	4,380	2,276	1,958	4,749
	1914	32	821	1,465	641	669	1,608
	1909	22	750	1,253	618	607	1,577

[1] Includes "lumber, planing-mill products, not including planing mills connected with sawmills" in all years, and also "boxes, wooden packing," in 1914 and 1909.
[2] Figures not available.