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FOURTEENTH CENSUS OF THE UNITED STATES  
MANUFACTURES: 1919

IDAHO

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CONTENTS

EXPLANATION OF TERMS.....	Page		Page
GENERAL STATISTICS	2	Size of establishments, by value of products, for cities of 10,000 inhabitants or more.....	9
General character of the state.....	3	Character of ownership for selected industries and for cities.....	10
Comparative summary.....	4	Manufactures, by population groups, in cities of 10,000 inhabitants or more.....	10
Statistics for the state, by counties.....	5	Number and horsepower of types of prime movers.....	11
Principal industries, ranked by value of products.....	5	Fuel consumed.....	11
Persons engaged in manufacturing industries.....	6	SPECIAL STATISTICS	
Average number of wage earners for selected industries, with per cent, by sex and age.....	6	Lumber, lath, and shingles.....	11
Average number of wage earners, by sex and age, and value of products, for cities of 10,000 inhabitants or more.....	6	Flour-mill and gristmill products.....	11
Wage earners, by months.....	7	Butter, cheese, and condensed milk.....	12
Wage earners, by months, for selected industries and for cities.....	7	Printing and publishing.....	12
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities.....	7	Laundries.....	12
Size of establishments, by average number of wage earners, for selected industries and for cities.....	8	Dyeing and cleaning.....	12
Size of establishments, by value of products.....	8	Custom sawmills and gristmills.....	13
Size of establishments, by value of products, for selected industries.....	9	GENERAL TABLES	
		Table 26.—Comparative summary for selected industries and cities: 1919, 1914, and 1900.....	13
		Table 27.—Detailed statement of all industries combined and for specified industries: 1919.....	14





## 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 1900 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 1910, 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 1909 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 other 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.



# IDAHO.

## GENERAL STATISTICS.

**General character of the state.**—Idaho has a gross area of 83,888 square miles, of which 83,354 represent land surface. The inhabitants of the state in 1900 numbered 161,772; in 1910, 325,594; and in 1920, 431,866. In total population Idaho ranked forty-second among the states in 1920 and in density of population forty-third. The number of inhabitants per square mile in 1910 was 3.9, the corresponding figures for 1920 being 5.2.

There were in the state in 1920 only two cities having more than 10,000 inhabitants—Boise and Pocatello. These cities, with a combined population of 36,394, formed 8.4 per cent of the total population for Idaho in that year and reported 11.4 per cent of the value of the state's manufactured products in 1919.

**Importance and growth of manufactures (Table 1).**—The increases in wages, cost of materials, and the value of products, as presented in this table, were chiefly due to the change in industrial conditions brought about by the World War, and therefore can not be used to measure the growth of manufactures between the industrial censuses 1914 and 1919. However, a comparison of the number of persons engaged and the horsepower used in 1919 and 1914 shows a large increase in the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the exceptional 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 to their real importance from a manufacturing standpoint. The ranking of many industries 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 27.

**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 (Table 6).**—This table shows that 17 per cent of the wage earners 16 years of age and over reported for Boise in 1919 were females, the corresponding proportion for Pocatello being 5.1 per cent. A comparison of the figures with those presented in Table 5 shows a larger percentage of females was employed in the cities than in the state.

**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 and for the two cities. Except in the manufacture of confectionery and ice cream, there was no important industry in the state in which the number of female wage earners predominated.

**Prevailing hours of labor (Table 9).**—The figures presented in this table show a decided shortening of the hours of labor since the census of 1914. In that year 6.6 per cent of the wage earners were included in the group "48 and under," as against 81.5 per cent in 1919. On the other hand, in 1914 the "60" and "over 60" groups constituted 75 per cent of the total wage earners, as compared with 8.4 per cent in 1919.

**Size of establishments, by average number of wage earners, for selected industries (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, 77.7 per cent were in the classes having less than six wage earners, while such establishments employed but 7.9 per cent of the total number of wage earners. On the other hand, the number of establishments having more than 100 wage earners formed only 3.3 per cent of the total number of establishments, but reported 69 per cent of the average number of wage earners in the state.

**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 for the average number of wage earners and value added by manufacture in 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 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 Boise and Pocatello (Table 13).—This table strikingly illustrates the fact that the number of establishments of itself is no real index of manufacturing activities.

Character of ownership (Table 14).—The tendency of manufactures toward the corporate form of ownership since the 1909 census is presented in this table. In 1919 "corporations" reported 30.8 per cent of the total number of establishments in the state, while the corresponding proportion for 1914 was 26.8 per cent. There was an increase of 4,846, or 67 per cent, in the average number of wage earners under corporate ownership, and \$47,530,183, or 209.4 per cent, in the value of products during the census period 1914—1919.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that relatively the manufactures in Boise and Pocatello were not of great importance as to value of products, the two cities combined reporting but 11.4 per cent of the total for the state both in 1919 and 1914. The proportion of wage earners for the two cities, however, was greater in 1919, being 15.9 per cent, as against 12.7 per cent in 1914.

Number and horsepower of types of prime movers (Table 16).—Although there was an actual increase in both the owned and rented power from census to census, the percentage of increase in rented power was greater, being 83.2 per cent, as compared with 37.8 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. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	922	608	725	304	287	32.1	-3.7	93.2	20.8
Persons engaged.....	16,268	10,520	9,009	3,791	( <sup>2</sup> )	54.5	6.3	161.4	.....
Proprietors and firm members.....	851	664	831	371	( <sup>2</sup> )	28.2	-20.1	124.0	.....
Salaried employees.....	1,500	946	858	350	92	58.6	10.3	139.0	.....
Wage earners (average number).....	13,917	8,910	8,220	3,061	1,552	56.0	8.5	168.5	97.2
Primary horsepower.....	73,876	50,326	42,804	10,987	5,649	46.8	17.6	152.0	200.7
Capital.....	\$90,061,700	\$41,060,489	\$32,476,749	\$9,689,445	\$2,130,112	113.7	38.4	235.2	354.0
Salaries and wages.....	21,240,810	8,730,809	6,481,702	2,438,702	884,464	143.4	34.7	165.8	175.7
Salaries.....	2,701,517	1,240,288	981,055	379,311	66,225	117.8	26.0	159.4	472.8
Wages.....	18,548,272	7,490,521	5,497,647	2,059,391	818,239	147.6	36.2	167.0	151.7
Paid for contract work.....	1,342,453	502,085	736,018	379,086	( <sup>2</sup> )	138.8	-24.6	93.7	.....
Rent and taxes.....	2,034,470	548,166	428,135	138,419	( <sup>2</sup> )	271.1	28.0	.....	.....
Cost of materials.....	43,948,505	14,892,004	9,020,017	4,068,623	1,438,868	195.1	50.1	143.8	182.8
Value of products.....	80,510,749	28,453,797	22,399,860	8,768,743	3,001,442	183.0	27.0	155.5	192.3
Value added by manufacture <sup>4</sup> .....	36,562,214	13,561,703	12,479,843	4,700,220	1,562,574	169.6	8.7	165.5	200.8

<sup>1</sup> A minus sign ( - ) denotes decrease; percentage omitted where base is less than 100.  
<sup>2</sup> Figures not available.

<sup>3</sup> Exclusive of internal revenue.  
<sup>4</sup> Value of products less cost of materials.



# MANUFACTURES—IDAHO.

5

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 horse-power.
		Average number.	Wages.					
The state.....	922	13,917	\$18,548,272	\$2,034,470	\$43,948,505	\$80,510,740	\$30,502,244	73,876
Ada.....	123	1,052	1,318,192	264,014	4,044,894	7,158,859	3,113,995	3,650
Adams.....	14	71	68,709	2,431	1,07,647	280,550	152,903	722
Bannock.....	57	1,603	1,449,919	100,061	3,715,507	5,876,981	2,101,477	4,237
Bear Lake.....	19	10	18,873	1,073	182,321	253,806	71,545	540
Benewah.....	27	839	1,188,005	80,501	1,302,640	4,054,854	2,752,205	5,999
Bingham.....	20	288	402,424	44,704	1,700,295	2,311,416	521,121	1,846
Blaine.....	25	31	35,523	2,234	57,133	145,282	88,149	337
Boise.....	6	159	271,964	25,007	87,309	600,352	513,043	1,043
Bonner.....	34	1,857	2,427,007	143,002	1,971,106	5,786,916	3,815,810	6,202
Bonneville.....	21	185	432,372	62,780	1,850,170	2,624,223	774,044	1,780
Boundary.....	12	234	251,759	35,711	175,599	870,612	701,043	1,733
Butte.....	4	7	7,044	215	6,590	23,153	16,593	25
Camas.....	6	0	0,563	111	5,580	28,281	22,701	47
Canyon.....	47	197	239,593	97,720	2,531,421	3,282,012	750,591	1,148
Caribou.....	4	3	2,864	1,485	17,138	24,815	7,677	57
Cassia.....	30	184	181,028	60,163	1,272,132	1,961,139	680,007	1,001
Clark and Fremont <sup>1</sup> .....	12	29	30,547	15,043	542,204	681,502	139,298	483
Clearwater.....	21	594	936,292	47,409	290,313	1,604,045	1,307,732	6,782
Custer.....	12	13	17,270	2,070	36,203	72,789	37,586	178
Elmore.....	14	20	28,223	6,441	55,126	131,826	76,700	61
Franklin.....	11	39	45,410	8,786	970,100	1,190,784	220,684	759
Gem.....	15	406	485,024	158,789	966,482	1,889,076	922,594	1,553
Gooding.....	21	43	54,194	6,852	213,950	335,870	121,920	212
Idaho.....	23	108	161,828	9,797	457,590	761,304	293,714	1,253
Jefferson.....	7	44	45,081	3,606	192,444	322,360	129,945	1,609
Jerome.....	13	25	32,844	4,123	129,773	203,060	73,893	146
Kootenai.....	43	2,506	3,467,738	168,851	2,773,000	9,220,598	6,453,589	10,006
Latah.....	46	1,062	1,501,545	139,565	2,430,293	5,725,573	3,289,280	7,741
Lemhi.....	16	36	47,011	3,404	55,380	130,543	81,164	350
Lewis.....	10	287	432,158	17,091	300,147	1,059,889	699,742	1,279
Lincoln.....	10	13	20,830	2,381	32,455	75,800	43,405	24
Madison.....	7	140	280,593	108,424	1,128,330	1,059,339	831,000	1,074
Minidoka.....	12	100	92,991	38,984	509,477	824,743	315,266	694
Nez Percé.....	38	205	216,050	50,443	1,047,818	2,550,515	602,697	1,252
Oneida.....	8	11	15,985	1,081	421,426	408,774	47,348	248
Owyhee.....	4	1	600	510	3,553	11,442	7,880	7
Payette.....	17	67	62,326	7,637	743,732	944,304	200,672	309
Power.....	8	25	32,281	2,730	1,087,184	1,221,398	134,212	265
Shoshone.....	28	705	1,210,639	20,188	5,748,027	7,848,338	2,100,311	3,687
Teton.....	5	15	15,950	3,814	104,557	140,298	41,711	95
Twin Falls.....	44	317	396,595	127,659	2,978,511	4,420,250	1,441,748	1,669
Valley.....	9	230	360,042	30,738	109,496	748,361	938,898	606
Washington.....	19	40	49,059	21,095	532,470	689,070	157,593	595

<sup>1</sup> Clark and Fremont 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.		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.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	922	13,917	100.0	\$80,511	100.0	\$30,502	100.0	Bread and other bakery products.....	82	159	1.1	\$1,341	1.7	\$457	1.3
Lumber and timber products.....	194	8,291	59.6	30,088	37.4	21,610	59.1	Confectionery and ice cream.....	20	101	1.2	788	1.0	357	1.0
Flour-mill and gristmill products.....	78	304	2.2	13,501	16.8	1,073	4.0	Canning and preserving, fruits and vegetables.....	8	155	1.1	781	1.0	406	1.1
Cars and general shop construction and repairs by steam-railroad companies.....	9	1,877	13.5	4,402	5.5	2,152	5.9	Cheese.....	14	24	0.2	728	0.9	62	0.2
Butter.....	32	145	1.0	3,604	4.5	531	1.5	Lumber, planing-mill products, not including planing mills connected with sawmills.....	10	119	0.9	555	0.7	218	0.6
Printing and publishing, newspapers and periodicals.....	130	371	2.7	1,854	2.3	1,329	3.6	Printing and publishing, book and job.....	23	67	0.5	322	0.4	213	0.6
Slaughtering and meat packing.....	12	89	0.6	1,791	2.2	350	1.0	Mineral and soda waters.....	16	33	0.2	320	0.4	125	0.3
Automobile repairing.....	119	342	2.5	1,440	1.8	903	2.5	Brick.....	12	109	0.8	303	0.4	231	0.6
								All other industries.....	151	1,671	12.0	18,627	23.1	5,942	19.3

<sup>1</sup> Among the industries for which statistics can not be shown separately without the possibility of disclosing individual operations 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: Condensed milk; smelting, lead; and sugar, beet.



## MANUFACTURES—IDAHO.

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

CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.						Male.	Fe- male.
All classes.....	1919	16,268	15,483	785	95.2	4.8	Clerks and other subordinate salaried employees.....	1919	886	614	272	69.3	30.7
	1914	10,529	10,220	309	97.1	2.9		1914	584	490	94	83.9	16.1
	1909	9,909	9,646	263	97.3	2.7		1909	502	418	84	83.3	16.7
Proprietors and officials.....	1919	1,435	1,424	41	97.2	2.8	Wage earners (average number).....	1919	13,917	13,445	472	96.6	3.4
	1914	1,026	1,002	24	97.7	2.3		1914	8,919	8,728	191	97.0	2.1
	1909	1,187	1,163	24	98.0	2.0		1909	8,220	8,065	155	98.1	1.9
Proprietors and firm members.....	1919	851	817	34	96.0	4.0	16 years of age and over.....	1919	13,867	13,308	469	96.6	3.4
	1914	664	644	20	97.0	3.0		1914	8,865	8,681	184	97.9	2.1
	1909	831	811	20	97.6	2.4		1909	8,190	8,035	155	98.1	1.9
Salaried officers of corporations....	1919	145	142	3	97.9	2.1	Under 16 years of age.....	1919	50	47	3	94.0	6.0
	1914	83	80	3	95.4	3.6		1914	54	47	7	87.0	13.0
	1909	108	104	4	95.3	3.7		1909	30	30	0	100.0	0.0
Superintendents and managers.....	1919	469	465	4	99.1	0.9							
	1914	279	278	1	99.6	0.4							
	1909	248	248	0	100.0	0.0							

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

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Under 16 years of age.				16 years of age and over.		Under 16 years of age.
			Male.	Female.					Male.	Female.	
All industries.....	1919	13,917	96.3	3.4	0.4	Confectionery and ice cream.....	1919	161	32.9	67.1	.....
	1914	8,919	97.3	2.1	0.6		1914	58	43.1	55.2	1.7
	1909	8,220	97.7	1.9	0.4	Flour-mill and gristmill products.....	1919	304	99.7	0.3	.....
Automobile repairing.....	1919	342	99.1	.....	0.9		1914	188	98.9	1.1	.....
Bread and other bakery products.....	1919	159	68.6	25.8	5.7	Lumber and timber products.....	1919	8,291	99.0	0.9	0.1
	1914	104	81.7	16.3	1.9		1914	5,968	99.8	0.1	0.1
Brick.....	1919	109	100.0	.....	.....	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919	119	96.6	0.8	2.5
	1914	73	100.0	.....	.....		1914	51	100.0	.....	.....
Butter.....	1919	145	90.3	9.7	.....	Printing and publishing, newspapers and periodicals.	1919	371	77.6	15.9	6.5
	1914	62	90.3	6.5	3.2		1914	425	81.6	11.1	7.3
Canning and preserving, fruits and vege- tables.	1919	155	51.0	49.0	.....	All other industries.....	1919	1,884	96.2	3.6	0.2
	1914	70	21.4	70.0	8.6		1914	943	96.7	2.5	0.7
Cars and general shop construction and re- pairs by steam-railroad companies.	1919	1,877	98.6	1.4	.....						
	1914	977	99.8	.....	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.

	BOISE.			POCATELLO.	
	1919	1914	1909	1919	1914
Wage earners (average number).....	573	348	411	1,639	782
16 years of age and over.....	571	347	411	1,639	778
Male.....	474	293	372	1,556	775
Female.....	97	54	39	83	3
Under 16 years of age.....	2	1	.....	.....	4
Value of products.....	\$3,883,280	\$1,377,327	\$1,660,497	\$5,328,406	\$1,876,167

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	11,248	6,915	6,145	68.8	65.3	64.5	July.....	14,555	10,368	8,939	89.1	98.0	93.8
February.....	11,178	6,414	6,033	68.4	60.6	63.3	August.....	14,568	10,069	8,696	89.1	95.1	91.3
March.....	11,323	7,577	7,270	69.3	71.6	76.3	September.....	15,552	10,091	8,690	95.2	95.4	91.2
April.....	12,849	8,738	8,279	78.6	82.6	80.9	October.....	16,252	9,831	9,525	99.4	92.9	100.0
May.....	14,020	9,853	8,664	85.8	93.1	91.0	November.....	16,342	8,783	8,971	100.0	83.0	94.2
June.....	14,637	10,583	8,929	89.6	100.0	93.7	December.....	14,480	7,806	8,507	88.6	73.8	80.3

<sup>1</sup> 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.



## MANUFACTURES—IDAHO.

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.	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.....	922	13,917	137	579	1,100	133	1,408	31	966	12	834	16	2,370	10	3,605	3	2,208	1	1,426
Automobile repairing.....	119	342	11	92	182	16	160	—	—	—	—	—	—	—	—	—	—	—	—
Bread and other bakery products.....	82	159	13	66	132	3	27	—	—	—	—	—	—	—	—	—	—	—	—
Brick.....	12	100	1	5	20	5	54	1	35	—	—	—	—	—	—	—	—	—	—
Butter.....	32	145	1	20	31	11	114	—	—	—	—	—	—	—	—	—	—	—	—
Canning and preserving, fruits and vegetables.....	8	155	1	—	—	6	91	—	—	1	64	—	—	—	—	—	—	—	—
Cars and general shop construction and repairs by steam-railroad companies.....	9	1,877	—	—	—	1	6	4	116	1	70	2	259	—	—	—	—	1	1,426
Confectionery and ice cream.....	20	161	2	14	29	2	27	1	50	1	55	—	—	—	—	—	—	—	—
Flour-mill and gristmill products.....	78	304	13	46	68	18	197	1	39	—	—	—	—	—	—	—	—	—	—
Lumber and timber products.....	194	8,291	15	114	182	23	228	14	435	7	460	9	1,492	9	3,286	3	2,208	—	—
Lumber, planing-mill products, not including planing mills connected with sawmills.....	16	119	3	8	25	2	14	3	80	—	—	—	—	—	—	—	—	—	—
Printing and publishing, newspapers and periodicals.....	136	371	35	86	170	14	164	1	37	—	—	—	—	—	—	—	—	—	—
All other industries.....	216	1,884	42	128	261	32	326	6	174	2	185	5	619	1	319	—	—	—	—
Total for cities.....	134	2,212	14	79	189	34	386	5	156	1	55	—	—	—	—	—	—	1	1,426
BOISE.....	98	573	11	56	130	26	287	5	156	—	—	—	—	—	—	—	—	—	—
POCATELLO.....	36	1,639	3	23	59	8	99	—	—	1	55	—	—	—	—	—	—	1	1,426

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.....	922	608	725	13,917	8,919	8,220	\$80,510,749	\$28,453,797	\$22,399,860	\$30,562,244	\$13,561,703	\$12,479,843
Less than \$5,000.....	300	299	270	184	276	354	870,035	777,615	743,265	602,448	526,846	523,258
\$5,000 to \$20,000.....	314	252	281	760	828	1,184	3,427,716	2,426,365	2,354,751	1,960,795	1,437,559	1,750,615
\$20,000 to \$100,000.....	195	93	129	1,371	950	1,751	8,410,814	4,061,116	5,785,475	3,636,704	1,757,604	2,771,134
\$100,000 to \$500,000.....	74	40		2,138	4,143	14,931	10,288,813	7,570,211	13,016,369	5,931,257	6,601,625	17,428,836
\$500,000 to \$1,000,000.....	21	11	136	2,645			14,624,616	7,712,573		6,535,775		
\$1,000,000 and over.....	18	3		6,010	2,716		36,888,755	5,905,917		17,895,265	3,238,169	
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.....	32.5	42.8	38.5	1.3	3.1	4.3	1.1	2.7	3.3	1.6	3.9	4.2
\$5,000 to \$20,000.....	34.1	36.1	38.8	5.5	9.3	14.4	4.3	8.5	12.7	5.4	10.6	14.1
\$20,000 to \$100,000.....	21.1	13.3	17.8	9.9	10.7	21.3	10.4	14.3	25.8	9.9	13.0	22.2
\$100,000 to \$500,000.....	8.0	5.7		15.4	46.5	60.0	20.2	26.6		16.2		
\$500,000 to \$1,000,000.....	2.3	1.6		18.2			18.2	27.1	58.1	17.9	48.7	59.5
\$1,000,000 and over.....	2.0	0.4		49.7	30.5		45.8	20.8		48.9	23.9	

Includes the group "\$1,000,000 and over."



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.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
BREAD AND OTHER BAKERY PRODUCTS.....	82	65	100.0	100.0	150	104	100.0	100.0	\$1,340,832	\$540,752	100.0	100.0	\$457,123	\$264,208	100.0	100.0
Less than \$5,000.....	14	22	17.1	33.8	3	11	1.9	10.0	37,008	70,803	2.8	12.9	13,031	32,784	3.0	12.4
\$5,000 to \$20,000.....	47	40	57.3	61.5	76	81	47.8	77.0	521,334	405,452	38.9	74.2	204,113	201,670	44.7	76.3
\$20,000 to \$100,000.....	21	3	25.6	4.6	80	12	50.3	11.5	781,500	70,497	58.3	12.9	239,379	20,764	52.4	11.3
BUTTER.....	32	23	100.0	100.0	145	62	100.0	100.0	3,064,466	997,459	100.0	100.0	534,283	165,272	100.0	100.0
Less than \$5,000.....	3	4	9.4	17.4	1	.....	0.7	.....	5,614	12,011	0.2	1.3	982	2,391	0.2	1.4
\$5,000 to \$20,000.....	6	6	18.8	26.1	4	9	2.8	14.5	87,294	70,171	2.4	7.0	14,017	10,967	2.6	6.6
\$20,000 to \$100,000.....	12	10	37.5	43.5	32	37	22.1	59.7	718,410	521,620	19.6	52.3	110,318	85,721	20.7	51.9
\$100,000 and over.....	11	3	34.4	13.0	108	10	74.5	25.8	2,853,148	302,748	77.9	39.4	408,966	60,263	76.4	40.1
FLOUR-MILL AND GRISTMILL PRODUCTS.....	78	71	100.0	100.0	304	188	100.0	100.0	13,501,088	3,395,942	100.0	100.0	1,673,170	668,910	100.0	100.0
Less than \$5,000.....	8	13	10.3	18.3	1	8	0.3	4.3	23,828	34,933	0.2	1.0	2,839	10,380	0.2	1.6
\$5,000 to \$20,000.....	19	22	24.4	31.0	8	10	2.6	8.5	249,862	235,006	1.9	6.9	35,350	60,625	2.1	9.1
\$20,000 to \$100,000.....	25	26	32.1	36.6	39	65	12.8	34.6	1,105,667	1,100,594	8.0	32.6	192,249	254,636	11.5	38.1
\$100,000 to \$500,000.....	17	10	21.8	14.1	112	99	36.8	52.7	4,204,511	2,010,400	31.0	59.5	591,063	343,269	35.3	51.3
\$500,000 to \$1,000,000.....	6	.....	7.7	.....	64	.....	30.9	.....	3,849,367	.....	28.6	.....	459,485	.....	27.6	.....
\$1,000,000 and over.....	3	.....	3.8	.....	50	.....	16.5	.....	3,917,853	.....	29.0	.....	392,084	.....	23.4	.....
LUMBER AND TIMBER PRODUCTS.....	104	143	100.0	100.0	8,201	5,998	100.0	100.0	30,087,627	13,180,139	100.0	100.0	21,000,600	7,140,445	100.0	100.0
Less than \$5,000.....	61	65	46.9	45.5	96	91	1.2	1.5	287,185	151,054	0.9	1.1	225,276	116,980	1.0	1.6
\$5,000 to \$20,000.....	41	41	22.7	28.7	166	209	2.0	4.5	450,499	420,531	1.5	3.2	354,429	327,931	1.7	4.6
\$20,000 to \$100,000.....	21	15	10.8	10.5	279	464	3.4	6.8	872,980	759,544	2.9	5.8	613,401	510,493	2.8	7.2
\$100,000 to \$500,000.....	19	13	9.8	9.1	1,631	1,520	12.5	87.2	3,900,010	2,877,033	13.0	21.8	2,730,575	1,617,991	12.6	30.5
\$500,000 to \$1,000,000.....	9	2	4.6	6.3	1,955	.....	23.6	.....	6,061,659	2,971,377	22.1	68.1	4,704,097	.....	22.0	.....
\$1,000,000 and over.....	10	.....	5.2	.....	4,701	.....	57.4	.....	17,920,288	.....	59.6	.....	12,911,822	.....	59.8	.....
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	136	151	100.0	100.0	371	425	100.0	100.0	1,853,587	1,150,543	100.0	100.0	1,320,413	894,502	100.0	100.0
Less than \$5,000.....	66	89	48.5	58.9	32	92	8.6	21.6	203,851	227,800	11.0	19.7	154,250	180,686	11.6	20.9
\$5,000 to \$20,000.....	53	56	39.0	37.1	146	176	39.1	41.4	538,002	473,170	29.1	40.9	403,517	383,063	30.4	42.9
\$20,000 to \$100,000.....	14	10	10.3	4.0	125	157	33.7	36.9	539,592	455,483	29.1	39.4	337,755	323,023	25.2	36.2
\$100,000 to \$500,000.....	3	.....	2.2	.....	69	.....	18.0	.....	571,542	.....	30.8	.....	383,882	.....	28.9	.....
SLAUGHTERING AND MEAT PACKING.....	12	9	100.0	100.0	89	81	100.0	100.0	1,701,175	981,115	100.0	100.0	349,980	206,619	100.0	100.0
\$20,000 to \$100,000.....	4	4	33.3	55.6	11	23	12.4	28.4	190,646	288,407	10.6	29.4	44,095	101,138	12.6	34.2
\$100,000 and over.....	8	4	66.7	44.4	78	58	87.6	71.6	1,000,520	692,708	80.4	70.6	305,885	175,481	87.4	65.8

<sup>1</sup> Includes the groups "\$500,000 to \$1,000,000," and "\$1,000,000 and over."

<sup>2</sup> Includes the group "\$1,000,000 and over."

<sup>3</sup> Includes the group "\$100,000 to \$500,000."

<sup>4</sup> Includes the group "\$5,000 to \$20,000."

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.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
BOISE.....	98	573	100.0	\$3,883,280	100.0	\$1,891,686	100.0
Less than \$5,000.....	20	8	1.4	54,672	1.4	37,840	2.0
\$5,000 to \$20,000.....	34	93	16.2	409,788	10.6	253,151	13.4
\$20,000 to \$100,000.....	34	255	44.5	1,455,933	37.5	703,447	37.2
\$100,000 to \$500,000.....	10	217	37.9	1,962,887	50.5	897,248	47.4
POCATELLO.....	36	1,639	100.0	5,328,406	100.0	2,014,029	100.0
Less than \$5,000.....	7	2	0.1	22,871	0.4	9,871	0.5
\$5,000 to \$20,000.....	10	21	1.3	108,611	2.0	60,138	2.9
\$20,000 to \$100,000.....	15	108	6.6	705,121	13.2	324,417	15.9
\$100,000 and over.....	4	1,508	92.0	4,491,803	84.3	1,649,603	80.7



## MANUFACTURES—IDAHO.

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

INDUSTRY AND CITY.	Cen- sus 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.				
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.		
All industries.....	1919	447	284	191	13,917	1,051	12,084	782	7.6	86.8	5.6	\$80,510,749	\$5,704,034	\$70,230,068	\$4,576,647	7.1	87.2	5.7		
	1914	373	187	138	8,919	720	7,238	961	8.1	81.2	10.8	28,453,797	2,741,997	22,699,885	3,011,915	9.6	79.8	10.6		
	1909	350	200	175	8,220	1,237	6,401	582	15.0	77.9	7.1	22,399,860	3,567,130	16,982,034	1,850,696	15.9	75.8	8.3		
Bread and other bakery products.	1919	68	3	11	159	129	5	25	81.1	3.1	15.7	1,340,832	1,078,463	62,010	200,359	80.4	4.6	14.9		
	1914	52	3	10	104	79	10	15	76.0	9.6	14.4	546,752	416,524	51,590	78,638	76.2	9.4	14.9		
Butter.....	1919	6	18	8	145	7	113	25	4.8	77.9	17.2	3,664,496	233,285	2,662,598	768,613	6.4	72.7	21.0		
	1914	5	14	4	62	7	42	13	11.3	67.7	21.0	997,459	87,312	692,405	217,682	8.8	69.4	21.8		
Cars and general shop construction and repairs by steam-railroad companies.	1919	-----	9	-----	1,877	-----	1,877	-----	100.0	-----	-----	4,401,733	-----	4,401,733	-----	100.0	-----	-----		
	1914	-----	7	-----	977	-----	977	-----	100.0	-----	-----	2,033,635	-----	2,033,635	-----	100.0	-----	-----		
Flour-mill and gristmill products.	1919	19	50	9	304	33	263	8	10.9	86.5	2.6	13,501,088	800,975	12,317,676	382,437	5.9	91.2	2.8		
	1914	19	39	13	188	27	146	15	14.4	77.7	8.0	3,395,942	438,224	2,609,353	349,365	12.9	76.8	10.3		
Lumber and timber products.	1919	93	51	50	8,291	426	7,464	401	5.1	90.0	4.8	30,087,627	1,146,010	27,692,432	1,240,185	3.8	92.0	4.2		
	1914	63	38	42	5,968	199	4,986	783	3.3	83.5	13.1	13,180,139	341,614	10,983,719	1,854,806	2.6	83.3	14.1		
Printing and publishing, newspapers and periodicals.	1919	81	34	21	371	130	202	39	35.0	54.4	10.5	1,853,587	535,125	1,117,878	200,584	28.9	60.3	10.8		
	1914	99	25	27	425	170	202	53	40.0	47.5	12.5	1,156,543	455,914	575,430	125,199	30.4	49.8	10.8		
Slaughtering and meat packing.	1919	3	7	2	89	119	70	-----	21.3	78.7	-----	1,791,175	1,321,100	1,470,075	-----	17.9	82.1	-----		
	1914	2	6	1	81	112	69	-----	14.8	85.2	-----	981,115	1,198,407	782,703	-----	20.2	79.8	-----		
Total for cities.....	1919	56	48	30	2,212	141	1,905	166	6.4	86.1	7.5	9,211,686	916,330	7,426,105	869,251	9.9	80.6	9.4		
	1914	43	24	9	1,130	109	999	22	9.6	88.4	1.9	3,253,494	374,312	2,721,828	157,354	11.5	83.7	4.8		
BOISE.....	1919	42	31	25	573	115	361	97	20.1	63.0	16.9	3,883,250	636,272	2,715,426	531,582	16.4	60.9	13.7		
	1914	30	18	9	348	93	233	22	26.7	67.0	6.3	1,377,327	288,519	931,454	157,354	20.9	67.0	11.4		
POCATELLO.....	1919	14	17	5	1,639	26	1,514	69	1.6	94.2	4.2	5,328,406	280,058	4,710,070	337,669	5.3	88.4	6.3		
	1914	13	6	-----	782	16	766	-----	2.0	98.0	-----	1,876,167	85,793	1,790,374	-----	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.

	Cen- sus 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.		Number or amount.	Per cent of aggre- gate.
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.		
Number of places.....	1919		2		2			
	1914		2		2			
	1909		1		1			
Population ¹.....	1920	431,866	36,394	8.4	36,394	8.4	395,472	91.6
	1915	395,407	40,904	10.3	40,904	10.3	354,503	89.7
	1910	325,594	17,358	5.3	17,358	5.3	308,236	94.7
Number of establishments.....	1919	922	134	14.5	134	14.5	788	85.5
	1914	698	76	10.9	76	10.9	622	89.1
	1909	725	50	6.9	50	6.9	675	93.1
Average number of wage earners.....	1919	13,917	2,212	15.9	2,212	15.9	11,705	84.1
	1914	8,919	1,130	12.7	1,130	12.7	7,789	87.3
	1909	8,220	411	5.0	411	5.0	7,809	95.0
Value of products.....	1919	\$80,510,749	\$9,211,686	11.4	\$9,211,686	11.4	\$71,299,063	88.6
	1914	28,453,797	3,253,494	11.4	3,253,494	11.4	25,200,303	88.6
	1909	22,399,860	1,600,497	7.4	1,600,497	7.4	20,799,363	92.6
Value added by manufacture.....	1919	36,562,244	3,935,715	10.8	3,935,715	10.8	32,626,529	89.2
	1914	13,561,703	1,791,024	13.2	1,791,024	13.2	11,770,679	86.8
	1909	12,479,843	765,909	6.1	765,909	6.1	11,713,934	93.9

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.....	2,139	1,314	937	73,876	50,326	42,804	100.0	100.0	100.0
Owned.....	503	440	540	55,033	40,369	33,178	75.3	80.2	89.2
Steam.....	409	353	437	53,304	38,264	35,529	72.2	76.0	83.0
Engines.....	392	(1)	(1)	42,240	(1)	(1)	57.2		
Turbines.....	17	(1)	(1)	11,064	(1)	(1)	15.0		
Internal-combustion engines.....	60	55	53	578	431	242	0.8	0.9	0.6
Water.....	34	32	50	1,761	1,674	2,407	2.4	3.3	5.6
Water wheels and turbines.....	33	24	47	1,760	1,454	2,403	2.4	2.9	5.6
Water motors.....	1	8	3	1	220	4	(2)	0.4	(2)
Rented.....	1,636	874	397	18,243	9,957	4,626	24.7	19.8	10.8
Electric.....	1,636	874	397	18,207	9,923	4,606	24.6	19.7	10.8
Other.....				36	20	20	(2)	0.1	(2)
Electric.....	2,005	1,009	608	29,880	16,120	8,409	100.0	100.0	100.0
Rented.....	1,636	874	397	18,207	9,923	4,606	60.0	61.6	54.8
Generated by establishments reporting.....	369	195	211	11,682	6,192	3,803	39.1	38.4	45.2

<sup>1</sup> Not reported separately.<sup>2</sup> 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, manufactured (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	363	152,014	24,429	23,619	917	3,751
Per cent of increase.....	175	88,222	2,482	2,273	(1)	2,256
	101.7	72.3	884.2	979.5	(1)	66.3
Brick.....		5,880				
Canning and preserving, fruits and vegetables.....		1,987	390			
Cars and general shop construction and repairs by steam-railroad companies.....		25,101				
Condensed milk.....		4,070			48	
Gas, illuminating and heating.....		9,544	1,288	1,644		
Lumber and timber products.....		11,131		6,386	397	
Printing and publishing, newspapers and periodicals.....	49	997	15	4	103	321
Slaughtering and meat packing.....	188	1,398			39	
Smelting, lead.....		7,288	17,702	14,480		
Sugar, beet.....		73,344	4,149			
All other industries.....	116	10,665	876	1,006	330	3,430
Total for cities.....	10	31,496	1,557	1,615	84	3,368
BOISE.....	10	6,545	229		80	2,123
POCATELLO.....		24,951	1,328	1,615	4	1,245

<sup>1</sup>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 four of these industries in Idaho are presented.

Lumber and timber products (Table 18).—The lumber industry is of first importance in Idaho, the value of lumber and timber products forming 37.4 per cent of the total value of all manufactured products for the state in 1919. The following table shows the production of lumber for 1919, 1914, and 1909, and lath and shingles for 1919 and 1909:

TABLE 18.—PRODUCTION OF LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY.		
	1919	1914	1909
Lumber.....M feet b. m..	765,388	1,763,508	645,800
Lath.....thousands..	69,150	(2)	86,740
Shingles.....thousands..	22,657	(1)	62,308

<sup>1</sup> Does not include data for custom mills.<sup>2</sup> Not reported.

The relative importance of Idaho as a lumber-producing state is increasing. In 1919 it ranked sixteenth among the states in the production of this commodity, in 1914 twentieth, and in 1909 twenty-fifth.

In 1919, 33.4 per cent of the total lumber cut was from western yellow pine, 30.6 per cent from Idaho white pine, and 18.7 per cent from larch. Other important woods cut were white fir, Douglas fir, cedar, and spruce.

Flour-mill and gristmill products (Table 19).—Wheat flour is still the leading product, forming 82 per cent of the total value of products for the industry in 1919, as compared with 66.6 per cent in 1914. During this five-year period there was an increase in wheat flour of 531,563 barrels, or 92.9 per cent, in quantity, and \$8,815,774, or 389.8 per cent, in value. Bran and middlings during this period increased 14,118 tons, or 54.7 per cent, in quantity, and \$995,438, or 195.4 per cent, in value.



TABLE 19.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$13,501,088	\$3,395,942	\$2,479,719
Wheat flour:			
Barrels.....	1,104,634	571,965	385,022
Value.....	\$11,088,516	\$2,261,403	\$1,819,581
Rye flour:			
Barrels.....	155		
Value.....	\$1,702		
Corn meal and corn flour:			
Barrels.....	1,785	5,048	180
Value.....	\$18,074	\$18,809	\$1,016
Barley meal:			
Pounds.....	131,855	754,416	40,000
Value.....	\$5,406	\$3,450	\$600
Bran and middlings:			
Tons.....	39,907	25,789	
Value.....	\$1,504,845	\$509,407	27,673
Feed and offal:			
Tons.....	14,051	21,879	\$644,133
Value.....	\$791,844	\$535,001	
Breakfast foods:			
Pounds.....	56,904		
Value.....	\$3,081		
All other cereal products, value.....	\$10,019	\$3,390	\$5,924
All other products, value.....	\$76,938	\$9,482	\$8,465

Butter, cheese, and condensed milk (Table 20).—This table shows the quantity and value of the several products of the industry for 1919, 1914, and 1909.

Butter continues to be the product of chief value and at an increased proportion, forming 69.9 per cent of the total value of all products of the industry in the state in 1919, as compared with 58.2 per cent in 1914. During this five-year period cheese increased 249.4 per cent in quantity and 636 per cent in value.

TABLE 20.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$4,392,255	\$1,395,719	\$884,006
Butter:			
Pounds.....	5,272,857	2,813,761	2,357,386
Value.....	\$3,070,806	\$812,023	\$750,820
Packed solid:			
Pounds.....	1,057,899	660,643	434,063
Value.....	\$562,575	\$181,128	\$123,352
Prints or rolls:			
Pounds.....	4,214,958	2,147,118	1,923,323
Value.....	\$2,508,231	\$630,895	\$627,468
Cheese:			
Pounds.....	2,623,440	750,810	.....
Value.....	\$792,872	\$107,732	(*)
Cream sold:			
Pounds.....	827,708	858,451	417,800
Value.....	\$128,110	\$78,972	\$49,934
All other products, value.....	\$400,467	\$396,992	\$83,312

\* Excludes statistics for 2 establishments manufacturing condensed milk in 1919 to avoid disclosure of individual operations.

\* Included in "All other products" to avoid disclosure of individual operations.

Printing and publishing (Table 21).—The table which follows gives the number of publications and aggregate circulation per issue for all newspapers and periodicals published in Idaho during 1919, 1914, and 1909.

Of the daily papers, 5, with a circulation of 27,452, were published in the morning and 12, with a circulation of 36,446, in the afternoon. Although there was a decrease in the total number of publications during the five-year period from 1914 to 1919, the total circulation increased 11.5 per cent. All the publications were printed in the English language.

TABLE 21.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	157	167	130	226,016	202,721	140,781
Daily.....	17	12	13	63,898	41,474	28,598
Sunday.....	7	8	3	44,251	34,566	13,864
Semiweekly <sup>1</sup> .....	6	8	6	8,735	9,730	7,185
Weekly.....	124	134	108	90,832	102,226	91,134
Monthly.....	13	5	.....	9,300	14,725	.....

<sup>1</sup> Includes 1 triweekly publication.

<sup>2</sup> Includes 1 semimonthly publication.

Laundries (Table 22).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 22, however, summarizes the statistics for such laundries in the state of Idaho for 1919 and 1914.

TABLE 22.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919.
	1919	1914	
Number of establishments.....	40	36	.....
Persons engaged.....	652	510	27.8
Proprietors and firm members.....	38	42	.....
Salaried employees.....	43	26	.....
Wage earners (average number).....	571	442	29.2
Primary horsepower.....	750	1,033	-26.8
Capital.....	\$877,560	\$486,600	80.3
Salaries and wages.....	547,055	274,938	99.0
Salaries.....	50,420	23,844	106.0
Wages.....	487,635	246,094	98.1
Paid for contract work.....	2,565	3,400	-24.6
Rent and taxes.....	20,854	12,734	63.8
Cost of materials.....	322,581	140,586	129.5
Amount received for work done.....	1,170,840	592,740	99.0

<sup>1</sup> A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.

Dyeing and cleaning (Table 23).—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 23.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	4
Persons engaged.....	56
Proprietors and firm members.....	6
Salaried employees.....	6
Wage earners (average number).....	44
Primary horsepower.....	18
Capital.....	\$40,610
Salaries and wages.....	58,768
Salaries.....	10,658
Wages.....	48,110
Paid for contract work.....	41,329
Rent and taxes.....	3,873
Cost of materials.....	7,952
Amount received for work done.....	130,507



Custom sawmills and gristmills (Tables 24 and 25).—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 24 and 25, however, summarize the statistics for such mills for 1919 and 1909.

TABLE 24.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	7	4	.....
Persons engaged.....	16	27	.....
Proprietors and firm members.....	14	22	.....
Wage earners (average number).....	2	5	.....
Primary horsepower.....	292	111	163.1
Capital.....	\$16,080	\$9,110	76.5
Wages.....	2,224	2,392	-7.0
Rent and taxes.....	185	( <sup>2</sup> )	.....
Cost of materials.....	388	150	158.7
Amount received for work done.....	5,971	4,505	32.5

<sup>1</sup> A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

<sup>2</sup> Figures not available.

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 25.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	6	11	.....
Persons engaged.....	8	17	.....
Proprietors and firm members.....	5	14	.....
Salaried employees.....	1	.....	.....
Wage earners (average number).....	2	3	.....
Primary horsepower.....	204	196	4.1
Capital.....	\$16,500	\$55,225	-70.0
Salaries and wages.....	3,553	1,674	112.2
Salaries.....	750	.....	.....
Wages.....	2,803	1,674	67.4
Rent and taxes.....	564	( <sup>2</sup> )	.....
Cost of materials.....	113,812	101,516	12.1
Value of products.....	127,833	118,831	7.6

<sup>1</sup> A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

<sup>2</sup> Figures not available.

<sup>3</sup> Includes estimate of all grain ground.

## GENERAL TABLES.

Table 26 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, 1919, 1914, and 1909, and similar data for all industries combined for Boise and Pocatello. Certain kindred industries are combined in some instances for comparison with 1909.

Table 27 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 similar data for all industries combined for the cities of 10,000 inhabitants or more.

TABLE 26.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.	INDUSTRY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
All industries.....	1919	922	13,917	73,870	\$18,548	\$43,049	\$80,511	Ice, manufactured.....	1919	15	56	1,258	\$70	\$48	\$272
	1914	698	8,919	50,326	7,491	14,892	28,454		1914	10	42	822	38	23	112
	1909	725	8,220	42,804	6,498	9,920	22,400		1909	4	19	355	14	12	65
Bread and other bakery products.	1919	82	159	181	181	884	1,341	Lumber and timber products <sup>1</sup> ..	1919	210	8,410	47,719	11,708	8,815	30,643
	1914	65	104	90	79	283	547		1914	159	6,019	34,930	4,911	6,102	13,329
	1909	47	83	35	57	216	394		1909	250	5,212	32,342	3,382	3,345	10,689
Brick.....	1919	12	109	764	132	72	303	Marble and stone work.....	1919	6	46	452	55	67	217
	1914	10	73	763	44	22	95		1914	6	30	120	39	29	91
	1909	36	286	1,050	179	109	444		1909	9	49	159	40	54	123
Butter.....	1919	32	145	764	187	3,130	3,064	Mineral and soda waters.....	1919	16	33	209	33	195	320
	1914	23	62	495	49	832	997		1914	20	22	42	12	33	81
Canning and preserving, fruits and vegetables.	1919	8	155	181	121	375	781		1909	12	14	22	12	19	71
	1914	5	70	131	17	59	126	Printing and publishing.....	1919	159	438	653	600	633	2,175
Cars and general shop construction and repairs by steam-railroad companies.	1919	9	1,877	2,788	1,816	2,250	4,402		1914	173	487	539	371	306	1,343
	1914	7	977	3,901	988	880	2,034		1909	132	408	388	373	243	1,148
	1909	5	849	755	672	659	1,366	Saddlery and harness.....	1919	16	22	20	23	116	188
Confectionery and ice-cream....	1919	20	161	212	92	432	788		1914	27	19	20	19	114	200
	1914	13	58	44	26	108	212		1909	20	26	5	23	151	234
Copper, tin, and sheet-iron work	1919	7	16	.....	21	52	91	Slaughtering and meat packing.	1919	12	89	474	117	1,441	1,791
	1914	5	8	6	7	15	32		1914	9	81	227	70	714	981
	1909	7	32	38	29	53	112		1909	4	39	115	33	451	535
Flour-mill and gristmill products.	1919	78	304	5,603	361	11,828	13,501	Tobacco, cigars.....	1919	17	18	3	12	43	86
	1914	71	188	3,914	155	2,727	3,396		1914	29	27	1	19	57	128
	1909	57	125	3,595	91	2,025	2,480		1909	24	80	.....	47	64	171
Foundry and machine-shop products.	1919	18	60	193	92	128	289	All other industries.....	1919	201	1,784	12,000	2,826	13,350	19,418
	1914	10	78	221	71	65	234		1914	52	530	3,830	535	2,471	4,345
	1909	14	74	203	71	89	228		1909	95	829	3,715	448	2,378	4,230
Gas, illuminating and heating..	1919	4	35	402	41	90	241	CITY.	1919	98	573	1,598	713	1,992	3,883
	1914	4	44	224	32	52	171	BOISE.....	1914	57	348	1,053	285	599	1,377
	1909	3	35	27	27	52	113		1909	50	411	672	308	895	1,660
								POCATELLO.....	1919	36	1,630	3,289	1,378	3,284	5,328
									1914	19	782	3,828	782	864	1,876

<sup>1</sup> Includes "lumber, planing-mill products, not including planing mills connected with sawmills."

<sup>2</sup> Includes "bookbinding and blank-book making."



## MANUFACTURES—IDAHO.

TABLE 27.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.		
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.		Female.	
								Maximum month.							Minimum month.

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

All industries.....	922	16,268	851	614	614	272	13,917	No 16,342	Fe 11,178	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Dollars. 96,061,709
1 Artificial stone products.....	5	14	7	1	1	1	6	Au <sup>4</sup> 12	Ja <sup>4</sup> 3	15	15	.....	.....	.....	43,280
2 Automobile bodies and parts.....	5	17	5	3	1	1	7	( <sup>5</sup> ) 7	( <sup>5</sup> ) 7	8	8	.....	.....	.....	26,569
3 Automobile repairing.....	119	546	151	28	14	11	342	Je 396	Ja 291	356	353	.....	3	.....	1,032,449
4 Bread and other bakery products.....	82	274	91	6	8	10	159	De 184	Ja 129	190	127	62	.....	3	595,805
5 Brick.....	12	130	7	9	3	2	109	Je 184	Fe 43	116	116	.....	.....	.....	341,444
6 Butter.....	32	217	8	24	12	28	145	Jy 174	Ja 119	146	133	13	.....	.....	958,650
7 Canning and preserving, fruits and vegetables.....	8	184	3	16	6	4	155	Se 342	Fe 8	295	195	100	.....	.....	385,422
8 Cars and general shop construction and repairs by electric-railroad companies.....	3	20	.....	2	.....	.....	18	No <sup>4</sup> 19	Fe <sup>4</sup> 17	19	19	.....	.....	.....	51,313
9 Cars and general shop construction and repairs by steam-railroad companies.....	9	1,980	.....	63	28	12	1,877	No 1,959	Au 1,741	1,894	1,872	22	.....	.....	3,199,004
10 Cheese.....	14	35	3	7	1	.....	24	Je <sup>4</sup> 28	Ja 18	29	28	1	.....	.....	147,650
11 Confectionery and ice cream.....	20	226	18	19	15	13	161	( <sup>5</sup> ) 161	( <sup>5</sup> ) 161	203	56	147	.....	.....	513,957
12 Confectionery.....	9	192	10	15	15	9	143	No 199	Ja 109	185	41	144	.....	.....	459,474
13 Ice cream.....	11	34	8	4	.....	4	18	Jy 28	De 13	18	15	3	.....	.....	54,483
14 Copper, tin, and sheet-iron work.....	7	24	8	.....	.....	.....	16	No 21	Ja 9	22	22	.....	.....	.....	51,225
15 Flour-mill and gristmill products.....	78	468	52	50	42	20	304	De 344	Jy 260	346	343	3	.....	.....	8,797,938
16 Foundry and machine-shop products.....	18	90	20	2	3	5	60	.....	.....	65	65	.....	.....	.....	269,750
17 Machine shops.....	12	45	12	2	.....	4	27	Je 33	Ja <sup>4</sup> 25	32	32	.....	.....	.....	113,075
18 Machine shop and foundry combined.....	6	45	8	.....	3	1	33	Se 38	Ja 28	33	33	.....	.....	.....	166,675
19 Furniture.....	3	8	4	.....	.....	.....	4	( <sup>5</sup> ) 4	( <sup>5</sup> ) 4	5	5	.....	.....	.....	6,509
20 Gas, illuminating and heating.....	4	58	.....	12	7	4	35	My <sup>4</sup> 40	Fe 31	39	39	.....	.....	.....	1,981,979
21 Ice, manufactured.....	15	84	11	10	4	3	56	Au 93	Ja 32	60	59	1	.....	.....	561,560
22 Lumber and timber products.....	194	8,904	210	153	252	58	8,291	Se 9,822	Ja 6,237	9,629	9,534	86	9	.....	49,347,384
23 Lumber, planing-mill products, not including planing mills connected with sawmills.....	16	152	16	6	8	3	119	Au 155	Ja 84	112	108	1	3	.....	415,852
24 Marble and stone work.....	6	61	7	3	5	.....	46	Jy 63	De 35	35	35	.....	.....	.....	293,489
25 Mineral and soda waters.....	16	58	15	7	1	2	33	Au 52	Ja <sup>4</sup> 20	33	30	3	.....	.....	343,401
26 Printing and publishing, book and job.....	23	109	25	7	5	5	67	De 73	Ja <sup>4</sup> 63	78	62	13	3	.....	281,211
27 Printing and publishing, newspapers and periodicals.....	136	676	123	50	89	43	371	.....	.....	415	327	61	26	1	1,556,002
28 Printing, publishing, and job printing.....	131	667	117	50	89	43	368	De 411	Mh 336	412	324	61	26	1	1,550,881
29 All other.....	5	9	6	.....	.....	.....	3	( <sup>5</sup> ) 3	( <sup>5</sup> ) 3	3	3	.....	.....	.....	5,721
30 Saddlery and harness.....	16	46	18	3	.....	3	22	Au <sup>4</sup> 24	Ja 17	22	20	2	.....	.....	170,928
31 Slaughtering and meat packing.....	12	126	8	15	10	4	89	Oc 106	Ja <sup>4</sup> 75	106	105	.....	1	.....	1,150,418
32 Tobacco, cigars.....	17	36	18	.....	.....	.....	18	Je <sup>4</sup> 24	Ap 11	15	10	5	.....	.....	36,608
33 Vinegar and cider.....	4	24	8	2	.....	.....	14	No 35	Ja <sup>4</sup> 7	26	25	1	.....	.....	145,645
34 All other industries *.....	48	1,641	23	110	98	41	1,369	.....	.....	.....	.....	.....	.....	.....	23,365,576

\*All other industries embrace—  
Agricultural implements..... 2  
Awings, tents, and sails..... 2  
Bookbinding and blank-book making..... 1

Boxes, wooden packing, except cigar boxes..... 3  
Brooms, from broom corn..... 1  
Coffee, roasting and grinding..... 2  
Condensed milk..... 2

Dairymen's and apiarists' supplies..... 1  
Electrical machinery, apparatus, and supplies..... 1  
Food preparations, not elsewhere specified..... 2

Fur goods..... 1  
Glass, cutting, staining, and ornamenting..... 1  
Iron and steel, welding..... 2  
Lime..... 2

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

1 BOISE.....	98	875	93	77	90	42	573	Oc 651	Ja 478	682	556	124	2	.....	3,453,398
2 POCATELLO.....	36	1,819	27	74	44	35	1,639	No 1,742	Au 1,515	1,725	1,627	98	.....	.....	3,852,746

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



# MANUFACTURES—IDAHO.

15

COMBINED AND FOR 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.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				Rent- <sup>2</sup>
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars. 1,559,287	Dollars. 1,142,260	Dollars. 18,548,272	Dollars. 1,342,453	Dollars. 201,343	Dollars. 1,833,127	Dollars. 42,345,546	Dollars. 1,602,059	Dollars. 80,510,749	Dollars. 36,502,244	73,876	42,240	11,064	578	1,751	18,243	11,682
692	402	9,049	24	323	9,586	529	31,842	21,727	42	12	9	21	6	1	21	1
180	27,333	5,333	47,024	12,290	517,265	25,627	1,445,754	902,862	485	26	1	458	3	1	6	2
50,500	12,652	181,416	27,877	6,205	850,227	33,482	1,340,832	457,123	181	60	12	181	15	1	181	3
6,860	4,846	132,221	8,976	1,471	1,768	23,664	47,896	231,457	764	165	18	704	5	1	704	4
23,555	41,508	187,048	600	7,585	10,603	3,094,596	35,623	534,283	764	25	13	569	5	1	569	5
52,363	5,108	120,547	340	350	22,659	353,573	21,832	781,258	181	11	11	156	7	1	156	7
19,180																
3,800		22,186	3,184	240		28,440	721	58,331	29,170	11					11	8
163,376	63,781	1,815,616		100	58,600	2,186,857	63,352	4,401,733	2,151,524	2,788	1,074				1,714	154
7,558	600	30,627		733	1,028	656,210	9,902	727,759	61,647	117	14				103	10
40,982	60,680	92,346	1,311	16,140	61,927	421,339	10,201	788,317	356,777	212	36				176	11
34,587	57,290	72,346	1,311	10,820	60,970	285,919	6,476	590,329	306,934	147	36				111	12
6,395	3,390	20,000		5,320	957	135,420	3,725	188,988	49,843	65					65	13
		20,934		2,305	205	52,123	284	90,931	38,524							
132,212	73,869	360,653	1,047	11,717	191,086	11,716,334	111,584	13,501,088	1,673,170	5,603	15		75	1,217	4,206	14
2,600	6,696	92,415		3,536	2,294	118,971	8,708	288,095	101,316	193			6		187	15
2,600	2,090	34,363		1,500	1,007	52,732	4,114	128,353	71,507	112			6		106	16
	4,606	58,052		2,036	1,287	66,239	4,594	160,642	80,809	81					81	17
		8,043		552	50	7,600	271	21,528	13,657	18					18	18
11,753	10,493	40,504	1,825	10,051	20,639	69,578	240,702	150,485	402	402						19
23,010	6,162	69,755	85	1,590	7,542	15,281	32,358	272,221	224,582	1,258	50	75			1,133	20
511,584	438,814	11,634,408	1,292,752	4,511	923,137	8,323,199	154,828	30,087,027	21,609,600	47,162	32,060	10,977	348	533	2,344	8,480
16,570	11,725	133,235		2,725	4,400	331,692	5,657	555,343	217,994	557	315				242	21
9,120	10,259	55,088		600	2,870	61,984	5,183	217,337	150,170	452			3		449	22
9,987	3,797	32,919		2,160	14,337	185,215	9,814	320,407	125,378	209	135				74	24
12,991	11,309	81,256	15	11,628	7,690	105,248	3,114	321,564	213,202	111					111	25
102,715	150,286	518,532	12,512	38,425	20,495	491,265	32,090	1,853,587	1,320,413	542			37		505	26
101,815	150,286	515,452	1,844	38,137	20,405	490,980	32,740	1,836,144	1,312,415	540			35		505	27
900		3,080	10,668	288	90	285	160	17,443	16,998	2			2			29
5,400	1,350	22,894	1,579	6,500	1,699	114,484	1,492	188,491	72,515	20					20	30
26,360	17,387	117,321		4,810	7,143	1,417,038	24,157	1,791,175	349,980	474	20		11		443	31
		11,854		2,270	9,788	42,408	643	85,830	42,779	3					3	32
10,790	2,700	11,761		480	1,983	34,752	3,412	81,592	43,428	88					88	33
315,149	180,503	2,206,717	17,267	4,914	452,505	11,157,593	880,703	17,026,996	4,970,700	11,228	6,957		40		4,231	34

Mattresses and spring beds, not elsewhere specified.....	1	Patent medicines and compounds....	2	Shipbuilding, wooden, including boat building.....	2	Sugar, beet.....	8
Minerals and earths, ground or otherwise treated.....	1	Paving materials.....	1	Smelting, lead.....	1	Toys and games.....	1
Optical goods, lenses.....	1	Petroleum, refining.....	1	Soap.....	1	Window and door screens.....	1
		Photo-engraving.....	1	Stoves and hot-air furnaces.....	1	Wood preserving.....	1
		Sand-lime brick.....	1				

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

150,705	155,240	713,121	14,667	54,435	78,470	1,908,076	82,018	3,883,280	1,891,686	1,598	95	7	139	1,357	1
163,155	123,988	1,378,129		11,431	87,666	3,190,439	93,938	5,328,406	2,044,029	3,289	1,326	75	3	1,885	2

<sup>1</sup> No figures given for reasons stated under "Explanation of terms."

<sup>2</sup> Same number reported for one or more other months.

<sup>3</sup> Same number reported throughout the year.



DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES  
MANUFACTURES: 1919

ILLINOIS

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

CONTENTS

EXPLANATION OF TERMS.....	Page.	SPECIAL STATISTICS.....	Page.
GENERAL STATISTICS.....	2	Slaughtering and meat packing.....	29
General character of the state.....	3	Printing and publishing.....	30
Comparative summary.....	4	Blast furnaces.....	30
Statistics for the state, by counties.....	5	Steel works and rolling mills.....	30
Principal industries, ranked by value of products.....	6	Agricultural implements.....	31
Persons engaged in manufacturing industries.....	7	Electrical machinery, apparatus, and supplies.....	31
Average number of wage earners for selected industries, with per cent, by sex and age.....	8	Flour-mill and gristmill products.....	31
Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more.....	9	Petroleum, refining.....	32
Wage earners, by months.....	9	Leather, tanned, curried, and finished.....	32
Wage earners, by months, for selected industries and for cities.....	10	Butter, cheese, and condensed milk.....	33
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities.....	13	Paints and varnishes.....	33
Size of establishments, by average number of wage earners, for selected industries and for cities.....	16	Engines, steam, gas, and water.....	34
Size of establishments, by value of products.....	17	Druggists' preparations, patent medicines and compounds, and perfumery and cosmetics.....	34
Size of establishments, by value of products, for selected industries.....	18	Soap.....	34
Size of establishments, by value of products, for cities of 10,000 inhabitants or more.....	21	Boots and shoes.....	35
Character of ownership, for selected industries and for cities.....	23	Musical instruments, pianos and organs and materials.....	35
Manufactures, by population groups, in cities of 10,000 inhabitants or more.....	25	Chemical industries.....	36
Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state.....	26	Laundries.....	36
Number and horsepower of types of prime movers.....	27	Dyeing and cleaning.....	36
Fuel consumed.....	27	Custom sawmills and custom gristmills.....	36
		GENERAL TABLES.....	
		Table 42.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909.....	37
		Table 43.—Detailed statement of all industries combined and specified industries: 1919.....	42





## 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.

(2)

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, millsupplies, 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.



# ILLINOIS.

## GENERAL STATISTICS.

**General character of the state.**—Illinois has a gross area of 56,665 square miles, of which 56,043 represent land surface. The inhabitants of the state in 1900 numbered 4,821,550; in 1910, 5,638,591; and in 1920, 6,485,280. In total population Illinois ranked third among the states in 1920. The number of inhabitants per square mile in 1910 was 100.6, the corresponding figure for 1920 being 115.7.

In 1920 there were 44 cities in the state having more than 10,000 inhabitants (see Table 6). The combined population of these cities in that year was 3,808,100, which formed 58.7 per cent of the total for Illinois. Of the total value of the manufactured products for the state in 1919, these cities reported 84.3 per cent.

**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 largely 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 this census period. The increases shown, however, in the number of wage earners and horsepower are indicative of a decided growth in the manufacturing activities of the state. The increase in "Rent and taxes" from 1914 to 1919 in Illinois is smaller than for most other states, which may be accounted for by the fact that there was a decrease of \$41,925,107 in rent and taxes in the distilled and malt liquor industries during this five-year period.

**Statistics for the state, by counties (Table 2).**—Figures are not available for comparison of the totals for the 102 counties in 1919 with those for prior censuses.

**Principal industries, ranked by value of products (Table 3).**—The ranking of industries by value of products is not always satisfactory as indicating their importance from a manufacturing standpoint. In many instances their rank 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 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 43.

**Average number of wage earners for selected industries (Table 5).**—The industries covered by this table are those which employed more than 2,000 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 for which comparative figures are available, except for Peoria. The decrease in that city was due to the great falling off in the manufacture of distilled liquors, largely the most important industry in the city in 1914.

**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 for selected industries, similar data are given for males and females for all industries combined, and also for the cities having more than 10,000 inhabitants, and for several industries showing a large proportion of females. The cities combined reported a slightly larger proportion of female wage earners than the state as a whole, 20.4 per cent, as compared with 19.3 per cent for the state.

**Prevailing hours of labor (Table 9).**—Since 1914 there has been a marked shortening of the working day in Illinois. In that year 15.7 per cent of the wage earners were included in the group "48 and under," as against 54 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 22.2 per cent of the total wage earners, as compared with 6.1 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, 93.7 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 28.3 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 6.3 per cent of the total number of manufacturing establishments in the state, but reported 71.7 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 manufacturing activities.

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 37.1 per cent of the number of establishments in the state in 1919, they reported 90.3 per cent of the average number of wage earners and 92.2 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 152,909, or 35 per cent, and the value of products, \$2,982,789,172, or 147.5 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 44 cities in 1919 represented 75.7 per cent of the total in the state. They reported in that year 85.1 per cent of the average number of wage earners and 84.3 per cent of the total value of products. The proportions for the cities were somewhat greater in 1919 than in 1914.

Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state (Table 16).—

This table includes all industries in Chicago having products of \$10,000,000 and over, and in East St. Louis, Peoria, Rockford, and Springfield having products of \$500,000 and over, the figures being given for those industries which can be shown without disclosing the operations of individual establishments. It is deemed of first importance to present the statistics of the state as a whole for all industries which can be shown without disclosing the operations of individual establishments. In doing so, however, it sometimes happens that quite important industries can not be shown in the city, since to do so might disclose the operations of establishments located outside, by the simple method of deducting the totals shown for the industry in the city from that given in the detailed state table.

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 354,988 horsepower, or 27.2 per cent. This increase was chiefly due to the gain in rented power, 312,041 horsepower, or 109.8 per cent. The owned power increased only 42,947 horsepower, or 4.2 per cent. That is, of the total increase during this five-year period, 87.9 per cent was in rented power and 12.1 per cent in owned.

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. The consumption of fuel in Chicago is significant of the city's importance in connection with the manufactures of the state. Of the several kinds of fuel shown in Table 18, the proportions used in Chicago in 1919 were as follows: Anthracite coal, 61.3 per cent; bituminous coal, 40.6 per cent; coke, 74.8 per cent; fuel oils, 56.4 per cent; gasoline and other volatile oils, 34.3 per cent; and gas, 76.4 per cent.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	18,593	18,388	18,026	14,921	14,374	1.1	2.0	20.8	3.8
Persons engaged.....	804,805	617,927	561,044	447,947	( <sup>2</sup> )	30.2	10.1	25.2	.....
Proprietors and firm members.....	15,282	15,854	17,357	13,990	( <sup>2</sup> )	-3.6	-8.7	24.1	.....
Salaried employees.....	136,409	95,130	77,923	54,521	40,964	43.4	22.1	42.9	33.1
Wage earners (average number).....	653,114	506,943	466,764	379,436	332,871	28.8	8.8	22.8	14.0
Primary horsepower.....	1,600,918	1,305,930	1,013,071	741,555	559,347	27.2	28.9	36.6	32.6
Capital.....	\$3,360,452,909	\$1,943,835,846	\$1,543,170,701	\$975,844,799	\$732,829,771	73.2	25.6	58.6	33.2
Salaries and wages.....	1,075,703,708	489,387,910	364,768,119	268,965,146	199,653,424	129.2	28.7	35.6	34.7
Salaries.....	274,616,349	128,477,585	91,449,114	60,559,678	40,549,245	113.7	40.5	51.0	49.4
Wages.....	801,087,359	340,910,325	273,319,005	208,405,468	159,104,179	135.0	24.7	31.1	31.0
Paid for contract work.....	32,006,039	18,864,010	13,625,794	11,473,474	( <sup>2</sup> )	69.7	38.4	18.8	.....
Rent and taxes.....	156,959,133	75,935,987	68,176,786	\$11,836,006	( <sup>2</sup> )	106.7	11.4	.....	.....
Cost of materials.....	3,488,270,446	1,340,183,407	1,160,926,690	840,057,316	681,450,122	160.3	15.4	38.2	23.3
Value of products.....	5,425,244,604	2,247,322,819	1,918,276,594	1,410,342,129	1,120,868,308	141.4	17.1	36.1	25.8
Value added by manufacture.....	1,936,974,245	907,130,412	753,849,904	570,284,813	439,418,186	113.5	19.6	33.0	29.8

<sup>1</sup> A minus sign (-) denotes decrease.

<sup>2</sup> Figures not available.

<sup>3</sup> Exclusive of internal revenue.

<sup>4</sup> Value of products less cost of materials.



## MANUFACTURES—ILLINOIS.

5

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 horse-power.
		Average number.	Wages.					
The state.....	18,593	653,114	\$801,087,350	\$150,950,133	\$3,488,270,446	\$5,425,244,694	\$1,936,974,248	1,660,918
Adams.....	217	5,422	5,196,925	1,310,306	16,480,542	30,631,601	14,151,059	14,852
Alexander.....	72	2,393	2,270,631	197,306	9,620,517	14,211,398	4,590,881	8,826
Bond.....	19	352	225,733	84,956	1,892,666	2,640,286	747,620	577
Boone.....	33	1,009	1,547,668	165,884	5,048,268	9,024,123	3,375,855	2,956
Brown.....	18	30	24,836	3,023	115,636	214,299	98,603	156
Bureau.....	62	1,263	1,273,557	41,360	5,807,989	7,315,458	1,507,469	4,876
Calhoun.....	16	24	28,586	1,331	94,980	173,012	78,032	63
Carroll.....	46	1,323	1,424,792	36,003	3,263,373	5,212,232	1,948,850	729
Cass.....	12	81	84,709	7,152	4,251,770	4,412,495	160,726	731
Champaign.....	201	1,770	2,029,313	168,484	3,867,510	7,988,290	4,120,760	4,992
Christian.....	27	202	188,177	17,556	1,039,431	2,318,704	379,363	1,079
Clark.....	45	104	86,181	9,304	901,085	1,212,156	311,071	879
Clay.....	40	320	302,119	21,825	523,488	1,257,144	733,656	679
Clinton.....	61	187	188,085	98,685	3,550,846	4,323,640	763,803	1,931
Coles.....	115	1,313	1,591,413	66,908	2,149,030	4,710,094	2,561,004	2,192
Cook.....	11,280	442,193	558,872,224	113,477,037	2,516,080,373	3,908,354,211	1,392,273,838	955,616
Crawford.....	54	364	401,090	41,505	1,989,048	2,932,754	943,706	1,212
Cumberland.....	14	41	30,578	2,532	164,578	247,984	83,406	133
De Kalb.....	77	2,245	2,653,653	364,945	10,374,935	16,736,192	6,361,257	6,513
De Witt.....	28	537	819,365	10,621	898,369	1,021,111	1,022,742	440
Douglas.....	32	187	208,941	10,680	542,402	953,266	410,884	682
Du Page.....	104	1,303	1,782,087	178,538	2,663,284	5,832,404	3,229,120	2,727
Edgar.....	74	723	567,592	63,556	2,513,286	4,501,271	1,987,085	1,800
Edwards.....	26	154	140,171	4,457	347,712	606,447	258,735	1,464
Elginham.....	49	280	191,236	16,069	1,515,262	2,132,621	617,359	882
Fayette.....	44	528	433,228	17,877	1,864,327	2,600,881	736,554	1,665
Ford.....	32	230	205,235	14,557	807,201	1,343,116	535,915	557
Franklin.....	42	175	196,210	20,691	608,817	1,031,778	422,961	1,028
Fulton.....	68	1,370	1,185,591	371,957	2,766,994	4,968,680	2,201,686	4,359
Gallatin.....	18	32	26,980	1,585	148,014	215,205	67,191	301
Greene.....	36	484	565,631	20,963	681,138	1,617,078	936,840	1,606
Grundy.....	45	408	427,551	119,176	4,633,569	6,018,961	1,385,392	2,174
Hamilton.....	18	32	23,530	3,683	405,316	489,396	84,080	887
Hancock.....	53	307	257,154	38,936	1,249,957	1,882,074	632,117	1,041
Hardin.....	5	13	9,230	1,605	158,363	197,358	38,995	115
Henderson.....	14	91	71,648	3,595	78,291	205,737	127,446	375
Henry.....	81	4,337	5,610,528	816,641	9,101,341	19,127,236	10,025,885	9,664
Iroquois.....	54	250	266,073	53,763	1,480,308	2,257,926	777,618	1,475
Jackson.....	57	1,648	1,767,847	153,682	5,026,250	8,214,484	3,188,234	5,551
Jasper.....	36	55	47,655	4,179	252,613	408,441	155,828	396
Jefferson.....	43	1,654	1,659,698	72,608	11,069,558	17,926,999	6,857,441	2,085
Jersey.....	23	445	301,431	23,702	1,785,624	2,637,036	851,412	1,149
Jo Daviess.....	59	457	392,494	51,233	1,881,396	2,764,032	872,636	1,204
Johnson.....	44	591	460,001	59,104	1,440,695	2,916,992	1,470,297	1,402
Kane.....	286	16,069	18,917,360	3,058,080	34,713,081	75,275,468	40,562,387	26,964
Kankakee.....	90	3,149	3,213,981	435,353	6,357,751	12,634,174	6,270,423	9,071
Kendall.....	11	216	231,147	83,463	280,509	1,277,634	988,065	921
Knox.....	111	2,593	2,815,802	228,770	7,167,016	12,578,872	5,411,856	6,312
La Salle.....	289	9,414	9,710,209	1,684,158	21,619,255	48,045,705	23,420,450	57,702
Lake.....	155	6,028	7,478,542	1,073,826	26,114,880	44,492,933	18,378,053	28,859
Lawrence.....	52	953	1,175,293	112,980	17,261,514	19,946,934	2,685,420	3,900
Lee.....	51	1,549	1,513,728	331,112	8,521,687	13,080,036	4,558,349	7,254
Livingston.....	96	926	898,986	99,257	2,273,647	4,346,184	2,072,537	3,183
Logan.....	56	240	181,745	36,898	469,922	958,430	498,508	729
McDonough.....	70	770	703,145	118,419	1,526,317	3,080,612	1,554,295	2,179
McHenry.....	62	2,261	2,286,355	299,169	5,951,448	11,637,410	5,685,002	3,281
McLean.....	120	3,052	3,662,524	449,958	6,839,763	13,623,749	6,783,096	6,936
Macon.....	120	5,888	7,197,644	1,264,843	25,067,210	39,385,631	14,318,421	17,451
Macoupin.....	83	254	262,603	20,051	1,378,212	2,074,066	695,574	784
Madison.....	238	10,651	21,672,993	9,921,769	122,039,259	178,994,722	56,955,463	60,590
Marion.....	77	1,301	1,413,582	53,126	2,200,100	4,354,319	2,154,219	2,193
Marshall.....	28	239	191,538	43,602	740,363	1,384,226	643,863	603
Mason.....	32	283	278,368	68,498	705,193	1,467,424	752,231	1,321
Massac.....	37	703	671,507	118,202	2,045,184	3,414,973	1,369,789	2,186
Menard.....	23	65	46,471	4,417	172,718	267,610	94,892	568
Mercer.....	30	283	260,545	17,240	480,949	962,477	481,528	1,073
Monroe.....	28	304	216,739	45,737	2,531,553	2,966,829	435,276	1,644
Montgomery.....	68	1,027	1,067,351	161,404	7,454,666	11,253,181	3,798,515	5,224
Morgan.....	69	1,120	968,851	76,273	5,258,108	7,262,711	2,004,513	1,970
Moultrie.....	18	47	41,382	5,169	99,558	197,934	98,376	139
Ogle.....	42	835	922,747	110,229	3,605,194	5,525,773	1,920,579	3,066
Peoria.....	295	9,313	10,001,414	1,484,704	46,010,520	71,903,042	25,292,522	40,042
Perry.....	32	184	168,549	33,438	1,310,655	1,772,435	461,780	1,445
Pike.....	24	120	89,707	267,747	788,128	2,350,613	1,562,485	269
Pike.....	41	128	104,662	30,166	1,132,881	1,504,190	371,318	664
Pope.....	15	32	30,395	1,224	126,174	184,768	58,594	558
Pulaski.....	24	844	892,019	85,990	971,901	2,397,524	1,425,623	2,089
Putnam.....	8	18	15,581	754	100,353	61,816	61,816	126
Randolph.....	56	692	488,837	124,934	8,605,076	10,206,298	1,600,222	2,569
Richland.....	39	193	98,316	14,760	810,323	1,202,174	391,846	785
Rock Island.....	177	13,625	18,348,936	2,683,321	47,043,751	86,735,641	39,691,890	33,873
St. Clair.....	375	21,459	25,459,959	2,644,061	233,672,041	281,455,508	47,783,467	74,440
Saline.....	37	289	373,705	20,618	1,065,669	1,647,223	581,554	1,449
Sangamon.....	213	5,388	4,992,638	788,522	12,452,197	22,870,698	10,418,501	7,931
Schuyler.....	14	109	151,926	3,274	127,609	325,336	197,727	125



## MANUFACTURES—ILLINOIS.

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
Scott.....	16	56	\$48,024	\$1,739	\$78,164	\$180,720	\$102,556	192
Shelby.....	35	69	63,007	6,872	298,223	471,657	173,334	304
Stark.....	24	93	84,265	6,248	316,650	577,649	260,999	199
Stephenson.....	112	3,242	3,471,838	492,357	11,803,785	19,586,853	7,783,068	7,732
Tazewell.....	88	2,991	3,682,765	436,532	23,162,902	40,389,561	17,226,659	9,359
Union.....	39	219	123,879	13,870	762,358	1,105,207	342,849	1,180
Vermillion.....	193	5,215	6,108,605	592,214	16,464,592	28,120,475	11,604,883	16,093
Wabash.....	29	576	650,320	85,822	3,971,079	5,423,876	1,452,797	3,516
Warren.....	47	684	550,191	50,333	1,715,777	2,925,609	1,209,832	2,529
Washington.....	33	107	95,288	11,639	2,383,251	2,785,955	402,704	1,385
Wayne.....	32	440	203,428	23,769	554,716	1,214,914	660,198	792
White.....	37	79	56,255	9,332	872,017	1,232,205	360,188	1,070
Whiteside.....	71	2,597	2,899,966	735,593	10,288,920	17,968,150	7,679,230	9,266
Will.....	207	12,707	17,189,691	4,452,632	60,278,851	96,956,717	36,677,866	90,793
Williamson.....	64	355	339,695	36,415	1,388,674	2,241,625	852,951	1,847
Winnebago.....	337	15,825	19,216,882	3,000,790	40,089,086	81,087,019	40,997,933	35,453
Woodford.....	34	203	189,012	46,606	565,605	1,094,160	528,555	846

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	18,593	653,114	100.0	\$5,425,245	100.0	\$1,936,974	100.0	Babbitt metal and solder.....	12	728	0.1	\$25,896	0.5	\$3,774	0.2
Slaughtering and meat packing.....	72	54,179	8.3	1,284,103	23.7	141,153	7.3	Soap.....	29	2,270	0.3	25,734	0.5	6,250	0.3
Foundry and machine-shop products.....	870	45,879	7.0	235,404	4.3	137,061	7.1	Patent medicines and compounds.....	208	1,599	0.2	25,395	0.5	14,141	0.7
Clothing, men's.....	502	32,896	5.0	197,617	3.7	106,369	5.5	Brass, bronze, and copper products.....	90	3,174	0.5	25,107	0.5	9,417	0.5
Iron and steel, steel works and rolling mills.....	32	20,177	3.1	173,345	3.3	73,025	3.8	Smelting and refining, zinc.....	7	4,224	0.6	24,954	0.5	6,501	0.3
Agricultural implements.....	68	22,548	3.5	123,285	2.4	63,125	3.3	Stoves and hot-air furnaces.....	56	4,880	0.7	22,523	0.4	14,012	0.7
Cars, steam-railroad, not including operations of railroad companies.....	19	13,775	2.1	125,218	2.3	42,790	2.2	Hardware.....	84	4,914	0.8	22,443	0.4	13,767	0.7
Electrical machinery, apparatus, and supplies.....	161	27,290	4.2	119,528	2.2	67,902	3.5	Chemicals.....	33	3,004	0.5	22,061	0.4	10,558	0.5
Flour-mill and gristmill products.....	322	2,740	0.4	116,563	2.2	13,397	0.7	Knit goods.....	58	5,095	0.8	20,460	0.4	8,759	0.5
Printing and publishing, book and job.....	1,240	21,639	3.3	110,886	2.1	68,396	3.5	Milinery and lace goods, not elsewhere specified.....	121	4,830	0.7	19,849	0.4	9,119	0.5
Cars and general shop construction and repairs by steam-railroad companies.....	133	40,219	6.2	103,219	1.9	63,418	3.3	Pickles, preserves, and sauces.....	68	2,255	0.3	19,040	0.4	7,006	0.4
Bread and other bakery products.....	2,345	12,418	1.9	102,664	1.9	41,067	2.1	Boxes, wooden packing, except cigar boxes.....	63	4,524	0.7	18,857	0.3	8,492	0.4
Food preparations, not elsewhere specified.....	134	4,061	0.6	94,240	1.7	13,809	0.7	Glass.....	14	4,065	0.6	18,245	0.3	12,685	0.7
Printing and publishing, newspapers and periodicals.....	1,204	10,120	1.6	88,946	1.6	58,961	3.1	Brick and tile, terra-cotta, and fire-clay products.....	144	5,627	0.9	17,564	0.3	12,734	0.7
Automobiles.....	25	3,507	0.5	77,018	1.4	15,987	0.8	Coke, not including gas-house coke.....	4	1,396	0.2	16,837	0.3	4,209	0.2
Confectionery and ice cream.....	462	8,779	1.3	73,097	1.3	26,909	1.4	Baking powders and yeast.....	14	922	0.1	15,682	0.3	6,743	0.3
Clothing, women's.....	398	10,278	1.6	68,044	1.3	26,909	1.4	Iron and steel forgings, not made in steel works or rolling mills.....	24	2,328	0.4	15,207	0.3	7,132	0.4
Iron and steel, blast furnaces.....	5	2,129	0.3	64,762	1.2	13,236	0.7	Machine tools.....	28	3,273	0.5	15,008	0.3	10,253	0.5
Petroleum, refining.....	13	2,448	0.4	64,549	1.2	10,495	0.5	Instruments, professional and scientific.....	33	3,621	0.6	14,881	0.3	8,898	0.5
Furniture.....	286	12,294	1.9	60,771	1.1	32,580	1.7	Washing machines and clothes wringers.....	21	1,747	0.3	14,436	0.3	5,861	0.3
Leather, tanned, curried, and finished.....	29	4,434	0.7	60,324	1.1	17,671	0.9	Paper and wood pulp.....	19	1,831	0.3	14,357	0.3	5,144	0.3
Engines, steam, gas, and water.....	25	8,643	1.3	45,741	0.8	22,097	1.1	Automobile repairing.....	785	3,120	0.5	13,951	0.3	7,849	0.4
Oleomargarine and other butter substitutes.....	9	1,311	0.2	44,256	0.8	7,013	0.4	Copper, tin, and sheet-iron work.....	391	2,232	0.3	13,208	0.2	7,062	0.4
Steam fittings and steam and hot-water heating apparatus.....	28	9,628	1.5	43,941	0.8	20,480	1.1	Carriages and wagons, including repairs.....	99	2,303	0.4	12,997	0.2	5,888	0.3
Paints.....	50	2,640	0.4	43,062	0.8	13,436	0.7	Phonographs and graphophones.....	36	1,919	0.3	12,842	0.2	5,745	0.3
Tinware, not elsewhere specified.....	28	5,927	0.9	42,833	0.8	13,671	0.7	Tools, not elsewhere specified.....	114	2,998	0.5	12,043	0.2	7,685	0.4
Boots and shoes.....	51	7,684	1.2	39,402	0.7	14,184	0.7	Tobacco, cigars and cigarettes.....	1,182	3,363	0.5	11,827	0.2	6,490	0.3
Coffee and spice, roasting and grinding.....	32	1,205	0.2	38,189	0.7	8,496	0.4	Varnishes.....	33	538	0.1	11,726	0.2	3,850	0.2
Gas, illuminating and heating.....	70	4,430	0.7	36,930	0.7	19,038	1.0	Cooperage.....	46	1,447	0.2	11,577	0.2	3,904	0.2
Lumber, planing-mill products, not including planing mills connected with sawmills.....	269	5,147	0.8	34,589	0.6	13,909	0.7	Window shades and fixtures.....	59	1,344	0.2	11,261	0.2	3,292	0.2
Musical instruments, pianos.....	33	6,991	1.1	30,848	0.6	17,893	0.9	Smelting and refining, not from the ore.....	17	479	0.1	11,233	0.2	1,917	0.1
Condensed milk.....	38	1,111	0.2	30,438	0.6	5,761	0.3	Plumbers' supplies, not elsewhere specified.....	18	2,096	0.3	10,197	0.2	5,501	0.3
Wire.....	10	2,775	0.4	29,855	0.6	11,408	0.6	Ice, manufactured.....	154	1,681	0.3	10,093	0.2	7,579	0.4
Boxes, paper and other, not elsewhere specified.....	87	5,923	0.9	28,893	0.5	13,337	0.7	Sausage, not made in slaughtering and meat-packing establishments.....	54	796	0.1	10,064	0.2	2,551	0.1
Automobile bodies and parts.....	204	5,298	0.8	27,865	0.5	14,943	0.8	Corsets.....	22	2,273	0.3	9,232	0.2	4,529	0.2
Structural ironwork, not made in steel works or rolling mills.....	115	3,790	0.6	27,586	0.5	11,016	0.6	Stamped and enameled ware, not elsewhere specified.....	22	2,450	0.4	9,216	0.2	4,733	0.2
Roofing materials.....	25	2,722	0.4	27,561	0.5	10,043	0.5	Glue, not elsewhere specified.....	11	1,583	0.2	9,157	0.2	4,218	0.2
Liquors, malt.....	61	2,796	0.4	27,323	0.5	20,184	1.0	Stationery goods, not elsewhere specified.....	32	1,668	0.3	8,951	0.2	5,720	0.3
Butter.....	129	813	0.1	20,376	0.5	2,633	0.1	Canning and preserving, fruits and vegetables.....	59	1,405	0.2	8,846	0.2	3,416	0.2
								Perfumery and cosmetics.....	75	710	0.1	8,776	0.2	5,354	0.3
								Mattresses and spring beds, not elsewhere specified.....	72	1,571	0.2	8,725	0.2	3,878	0.2



# MANUFACTURES—ILLINOIS.

7

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
Furnishing goods, men's.....	34	1,560	0.2	88,535	0.2	83,781	0.2	Gloves and mittens, leather.....	31	1,239	0.2	\$5,423	0.1	\$2,349	0.1
Cement.....	5	1,123	0.2	8,283	0.2	4,308	0.2	Mineral and soda waters.....	275	719	0.1	5,232	0.1	2,844	0.1
Signs and advertising novelties..	109	1,883	0.3	8,247	0.2	5,221	0.3	Lamps and reflectors.....	27	1,190	0.2	5,075	0.1	2,596	0.1
Fur goods.....	123	670	0.1	8,113	0.1	3,501	0.2	Sulphuric, nitric, and mixed acids.....	3	875	0.1	5,057	0.1	2,829	0.1
Malt.....	10	378	0.1	8,020	0.1	1,782	0.1	Druggists' preparations.....	31	503	0.1	4,859	0.1	2,775	0.1
Bags, other than paper, not including bags made in textile mills.....	9	381	0.1	7,934	0.1	2,533	0.1	Motorcycles, bicycles, and parts.	7	1,082	0.2	4,852	0.1	2,879	0.1
Cars and general shop construction and repairs by electric-railroad companies.....	49	3,151	0.5	7,478	0.1	4,681	0.2	Liquors, distilled, grain alcohol.	6	327	0.1	4,821	0.1	1,039	0.1
Bookbinding and blank-book making.....	113	2,395	0.4	7,478	0.1	4,839	0.3	Engraving, steel and copper plate, including photo printing.	33	1,180	0.2	4,794	0.1	3,223	0.2
Marble and stone work.....	247	1,081	0.2	7,443	0.1	3,931	0.2	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments..	23	182	(1)	4,733	0.1	984	0.1
Cash registers and calculating machines.....	11	1,855	0.3	7,354	0.1	5,800	0.3	Windmills.....	8	734	0.1	4,715	0.1	2,576	0.1
Trunks and valises.....	61	1,181	0.2	7,293	0.1	3,439	0.2	Cleansing and polishing preparations.....	61	361	0.1	4,702	0.1	2,401	0.1
Sewing machines and attachments.....	5	1,060	0.3	7,167	0.1	4,790	0.2	Fancy articles, not elsewhere specified.....	54	907	0.1	4,679	0.1	2,205	0.1
Looking-glass and picture frames	60	1,944	0.3	7,160	0.1	4,417	0.2	Typewriters and supplies.....	11	1,620	0.2	4,597	0.1	3,360	0.2
Saddlery and harness.....	183	887	0.1	7,032	0.1	2,502	0.1	Musical instruments, piano and organ materials.....	9	1,311	0.2	4,538	0.1	2,297	0.1
Wirework, not elsewhere specified.	49	821	0.1	6,958	0.1	2,887	0.1	Shirts.....	30	842	0.1	4,199	0.1	1,838	0.1
Springs, steel, car and carriage, not made in steel works or rolling mills.....	12	1,104	0.2	6,937	0.1	3,212	0.2	Hats and caps, other than felt, straw, and wool.....	47	679	0.1	4,191	0.1	1,842	0.1
Gas and electric fixtures.....	40	1,448	0.2	6,757	0.1	3,459	0.2	Photo-engraving.....	31	902	0.1	4,160	0.1	3,400	0.2
Screws, machine.....	24	1,811	0.3	6,617	0.1	4,019	0.2	Rubber tires, tubes, and rubber goods, not elsewhere specified.	20	650	0.1	4,135	0.1	2,151	0.1
Cotton goods.....	7	1,277	0.2	6,484	0.1	1,976	0.1	Stoves, gas and oil.....	13	632	0.1	4,016	0.1	1,842	0.1
Envelopes.....	17	1,394	0.2	6,431	0.1	3,105	0.2	Leather goods, not elsewhere specified.....	41	687	0.1	3,922	0.1	1,643	0.1
House-furnishing goods, not elsewhere specified.....	51	843	0.1	6,337	0.1	2,363	0.1	Upholstering materials, not elsewhere specified.....	7	734	0.1	3,901	0.1	2,114	0.1
Lumber and timber products.....	163	1,616	0.2	6,330	0.1	3,359	0.2	Cutlery and edge tools.....	18	964	0.1	3,849	0.1	2,497	0.1
Fertilizers.....	12	953	0.1	6,160	0.1	2,437	0.1	Explosives.....	9	454	0.1	3,780	0.1	1,514	0.1
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	13	906	0.1	6,109	0.1	3,040	0.2	Dairymen's, poultrymen's, and apiarists' supplies.....	26	609	0.1	3,506	0.1	2,183	0.1
Jewelry.....	78	992	0.2	6,082	0.1	3,445	0.2	Labels and tags.....	13	694	0.1	3,428	0.1	2,108	0.1
Cordials and flavoring sirups....	10	81	(1)	6,063	0.1	2,037	0.1	Brooms.....	82	692	0.1	3,423	0.1	1,450	0.1
Lithographing.....	31	1,083	0.2	6,015	0.1	3,771	0.2	Belting, leather.....	9	192	(1)	3,315	0.1	855	(1)
Oil, not elsewhere specified.....	16	101	(1)	5,865	0.1	1,920	0.1	Stereotyping and electrotyping..	26	705	0.1	3,284	0.1	2,646	0.1
Coffins, burial cases, and undertakers' goods.....	25	1,016	0.2	5,787	0.1	3,174	0.2	Engraving and diesinking.....	36	713	0.1	3,236	0.1	2,002	0.1
Wall paper, not made in paper mills.....	9	954	0.1	5,708	0.1	2,380	0.1	Scales and balances.....	16	690	0.1	3,207	0.1	1,634	0.1
Paper goods, not elsewhere specified.	20	543	0.1	5,589	0.1	2,588	0.1	Wood preserving.....	7	518	0.1	3,143	0.1	1,417	0.1
								Minerals and earths, ground or otherwise treated.....	26	694	0.1	3,137	0.1	1,993	0.1
								Paving materials.....	32	959	0.1	3,093	0.1	2,080	0.1
								All other industries <sup>2</sup> .....	1,034	57,169	8.8	460,712	8.7	195,294	10.1

<sup>1</sup> Less than one-tenth of 1 per cent.

<sup>2</sup> 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: "Ammunition"; "bags, paper, not including bags made in paper mills"; "boot and shoe cut stock"; "chewing gum"; "clocks"; "cordage and twine"; "dye-stuffs and extracts—natural"; "glucose and starch"; "grease and tallow, not including lubricating greases"; "iron and steel, wrought pipe"; "oil and cake, cottonseed"; "oil, linseed"; "pencils, lead"; "shipbuilding, steel"; "silk goods, including throwsters"; "smelting and refining, lead"; "soda-water apparatus"; "surgical appliances"; "suspenders, garters, and elastic woven goods"; "tobacco, chewing and smoking, and snuff"; "watchcases"; "watches"; and "wool scouring."

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

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	804,805	639,101	165,704	79.4	20.6	Clerks and other subordinate salaried employees.....	1919	102,131	64,397	37,734	63.1	36.9
	1914	617,927	510,833	107,094	82.7	17.3		1914	75,979	56,000	19,979	73.7	26.3
	1909	561,044	465,139	95,905	82.9	17.1		1909	61,669	46,390	15,279	75.2	24.8
Proprietors and officials.....	1919	40,560	47,499	2,061	95.8	4.2	Wage earners (average number)....	1919	653,114	527,205	125,909	80.7	19.3
	1914	35,005	33,768	1,237	96.5	3.5		1914	506,943	421,065	85,878	83.1	16.9
	1909	33,611	32,567	1,044	96.9	3.1		1909	465,764	386,182	79,582	82.0	17.1
Proprietors and firm members...	1919	15,282	14,609	673	95.6	4.4	16 years of age and over.....	1919	644,649	522,687	121,962	81.1	18.9
	1914	15,854	15,180	674	95.7	4.3		1914	501,251	418,363	82,888	83.5	16.5
	1909	17,357	16,725	632	96.4	3.6		1909	458,847	382,691	76,156	83.4	16.6
Salaried officers of corporations..	1919	11,024	10,485	539	95.1	4.9	Under 16 years of age.....	1919	8,465	4,518	3,947	53.4	46.6
	1914	7,980	7,714	266	96.7	3.3		1914	5,692	2,702	2,990	47.5	52.5
	1909	6,764	6,548	216	96.8	3.2		1909	6,917	3,491	3,426	50.5	49.5
Superintendents and managers..	1919	23,254	22,405	849	96.3	3.7							
	1914	11,171	10,874	297	97.3	2.7							
	1909	9,490	9,294	196	97.9	2.1							



## MANUFACTURES—ILLINOIS.

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

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries.....	1919	653, 114	80.0	18.7	1.3	Hardware.....	1919	4, 914	84.5	14.1	1.4
	1914	506, 943	82.5	16.4	1.1		1914	4, 035	89.4	9.5	1.1
	1909	465, 704	82.2	16.3	1.5	Instruments, professional and scientific.....	1919	3, 621	78.1	21.5	0.4
Agricultural implements.....	1919	22, 548	97.8	2.0	0.1		1914	1, 104	75.9	23.4	0.7
	1914	19, 556	98.9	1.0	0.1	Iron and steel, blast furnaces.....	1919	2, 129	99.9	(1)	.....
Automobile bodies and parts.....	1919	5, 298	93.1	6.6	0.3		1914	1, 450	100.0	.....	.....
	1914	1, 236	97.8	2.1	0.1	Iron and steel, steel works and rolling mills.....	1919	20, 177	99.5	0.4	(1)
Automobiles.....	1919	3, 507	98.4	1.4	0.2		1914	16, 408	99.9	0.1	(1)
	1914	1, 309	99.5	0.5	.....	Iron and steel forgings, not made in steel works or rolling mills.....	1919	2, 328	98.4	1.6	.....
Automobile repairing.....	1919	3, 120	98.9	1.0	0.1		1914	750	100.0	.....	.....
	1914	759	99.1	0.5	0.4	Knit goods.....	1919	5, 095	27.3	69.0	3.6
Bookbinding and blank-book making.....	1919	2, 385	51.2	43.0	5.8		1914	3, 535	31.2	66.5	2.3
	1914	2, 460	53.5	44.1	2.5	Leather, tanned, curried, and finished.....	1919	4, 434	86.5	12.7	0.8
Boots and shoes.....	1919	7, 684	52.8	44.1	3.1		1914	2, 678	99.3	0.6	0.1
	1914	6, 071	59.6	38.0	2.4	Liquors, malt.....	1919	2, 796	98.1	1.8	0.1
Boxes, paper and other, not elsewhere specified.....	1919	5, 923	41.4	44.1	14.5		1914	5, 749	98.9	0.8	0.3
	1914	4, 586	42.4	47.7	9.9	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.....	1919	5, 147	97.5	1.7	0.9
Boxes, wooden packing, except cigar boxes.....	1919	4, 524	88.4	11.1	0.6		1914	7, 734	99.1	0.2	0.7
	1914	4, 438	94.7	4.6	0.8	Millinery and lace goods, not elsewhere specified.....	1919	4, 830	20.6	77.5	1.9
Brass, bronze, and copper products.....	1919	3, 174	92.8	6.7	0.5		1914	3, 323	25.0	72.9	2.2
	1914	1, 502	97.3	1.9	0.8	Musical instruments, pianos.....	1919	6, 991	87.4	10.0	2.5
Bread and other bakery products.....	1919	12, 418	69.9	28.7	1.4		1914	6, 652	95.1	3.7	1.2
	1914	10, 404	75.4	23.5	1.1	Paints.....	1919	2, 640	88.9	11.0	0.1
Brick and tile, terra-cotta, and fire-clay products.....	1919	5, 627	99.8	0.1	0.1		1914	1, 670	89.9	10.0	0.1
	1914	7, 151	99.7	0.1	0.3	Petroleum, refining.....	1919	2, 448	97.3	2.7	.....
Carriages and wagons, including repairs....	1919	2, 303	99.2	0.7	0.1		1914	1, 072	100.0	.....	.....
	1914	4, 276	98.4	1.6	(1)	Pickles, preserves, and sauces.....	1919	2, 255	46.2	52.8	1.0
Cars and general shop construction and repairs by electric-railroad companies.....	1919	3, 151	99.4	0.6	.....		1914	1, 192	51.2	45.9	2.9
	1914	1, 813	99.7	0.3	.....	Plumbers' supplies, not elsewhere specified.....	1919	2, 096	91.4	8.4	0.2
Cars and general shop construction and repairs by steam-railroad companies.....	1919	40, 219	99.3	0.7	(1)		1914	3, 422	95.0	4.9	0.1
	1914	28, 682	99.9	0.1	(1)	Printing and publishing, book and job.....	1919	21, 639	73.5	22.8	3.6
Cars, steam-railroad, not including opera- tions of railroad companies.....	1919	13, 775	98.4	1.6	.....		1914	18, 892	74.1	22.0	3.0
	1914	18, 000	99.7	0.3	.....	Printing and publishing, newspapers and periodicals.....	1919	10, 120	76.0	17.4	6.6
Chemicals.....	1919	3, 004	98.3	1.7	.....		1914	9, 021	81.4	16.2	2.4
	1914	1, 682	98.7	1.2	0.1	Roofing materials.....	1919	2, 722	95.6	4.3	0.1
Clothing, men's.....	1919	32, 896	46.6	52.6	0.8		1914	862	98.7	0.9	0.3
	1914	34, 152	46.3	52.0	1.7	Slaughtering and meat packing.....	1919	54, 179	87.0	13.0	(1)
Clothing, women's.....	1919	10, 278	29.3	69.3	1.4		1914	31, 315	89.8	10.1	0.2
	1914	8, 113	30.9	67.6	1.5	Smelting and refining, zinc.....	1919	4, 224	99.9	(1)	.....
Confectionery and ice cream.....	1919	8, 779	50.4	46.1	3.5		1914	3, 573	99.3	0.1	0.7
	1914	5, 829	46.6	46.9	0.5	Soap.....	1919	2, 270	62.2	35.0	2.3
Copper, tin, and sheet-iron work.....	1919	2, 232	97.0	2.5	0.5		1914	2, 144	70.8	25.4	3.9
	1914	2, 490	98.4	1.0	0.6	Stamped and enameled ware, not else- where specified.....	1919	2, 450	60.0	30.0	1.0
Corsets.....	1919	2, 273	12.5	82.1	5.4		1914	1, 572	80.3	18.4	1.3
	1914	1, 074	9.5	86.3	4.3	Steam fittings and steam and hot-water heating apparatus.....	1919	9, 928	92.0	8.0	(1)
Electrical machinery, apparatus, and sup- plies.....	1919	27, 290	69.7	28.1	2.2		1914	2, 579	96.1	3.8	0.2
	1914	16, 483	78.8	20.9	0.3	Stoves and hot-air furnaces.....	1919	4, 880	94.8	0.5	4.7
Engines, steam, gas, and water.....	1919	8, 645	97.6	2.4	(1)		1914	3, 323	99.0	0.1	0.9
	1914	1, 860	99.6	0.3	0.1	Structural ironwork, not made in steel works or rolling mills.....	1919	3, 790	99.9	0.1	.....
Flour-mill and gristmill products.....	1919	2, 740	98.1	1.9	.....		1914	4, 933	99.7	0.2	0.1
	1914	2, 398	99.3	0.5	0.1	Tinware, not elsewhere specified.....	1919	5, 927	65.6	33.9	0.6
Food preparations, not elsewhere specified.....	1919	4, 061	67.5	31.9	0.6		1914	3, 383	70.6	28.7	0.7
	1914	1, 790	69.2	30.0	0.8	Tobacco, cigars and cigarettes.....	1919	3, 363	68.6	29.9	1.4
Foundry and machine-shop products <sup>2</sup> .....	1919	49, 450	95.8	3.7	0.5		1914	6, 457	74.3	23.1	2.6
	1914	37, 130	97.2	2.3	0.5	Tools, not elsewhere specified.....	1919	2, 998	95.7	3.8	0.4
Furniture.....	1919	12, 294	93.3	5.9	0.8		1914	1, 115	97.9	1.7	0.4
	1914	13, 350	96.7	2.2	1.0	Wire.....	1919	2, 775	96.3	3.7	.....
Gas, illuminating and heating.....	1919	4, 430	98.7	1.3	.....		1914	2, 763	99.2	0.8	.....
	1914	3, 890	100.0	.....	.....	All other industries.....	1919	141, 845	73.5	24.7	1.8
Glass.....	1919	4, 065	88.0	11.1	0.9		1914	198, 080	77.9	20.6	1.6
	1914	3, 704	95.8	4.0	0.2						

<sup>1</sup> Less than one-tenth of 1 per cent.<sup>2</sup> Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks."



# MANUFACTURES—ILLINOIS.

9

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	
Alton.....	3,236	2,662	2,429	2,751	2,527	2,247	484	122	124	1	13	58	\$31,036,983	\$12,864,532	\$10,096,333
Aurora.....	6,608	4,777	5,095	5,246	3,623	4,081	1,078	1,058	943	284	96	71	30,038,961	10,789,383	10,954,176
Belleville.....	3,160	2,450	1,872	2,318	1,997	1,662	734	387	130	108	66	71	14,017,292	5,727,269	4,614,698
Berwyn.....	25			20			5						155,157		
Bloomington.....	2,818	2,384	2,077	2,503	2,149	1,767	274	220	266	41	15	44	11,519,580	4,803,808	4,867,930
Blue Island.....	1,180			986			193			1			7,498,870		
Cairo.....		1,522	1,237	1,621	1,479	1,202	169	42	32	2	1	3	10,526,159	4,583,539	4,440,148
Canton.....	1,296	920	1,262	1,061	804	1,143	221	116	111	14		8	4,558,447	2,576,965	2,941,625
Centralia.....	1,003	237		703	154		266	82		4	1		3,010,556	767,533	
Champaign.....	1,063	382	273	958	331	253	103	50	14	2		6	5,187,010	1,244,696	846,489
Chicago.....	403,942	313,710	293,977	311,051	246,979	231,461	87,192	62,412	57,545	5,699	4,319	4,971	3,657,424,471	1,483,498,416	1,281,171,181
Chicago Heights.....	5,328	4,288	3,953	4,931	4,104	3,830	357	171	95	40	13	28	41,788,147	14,485,569	10,839,268
Cicero.....	14,754			11,674			3,044			36			57,918,418		
Danville.....	3,843	2,109	1,744	3,106	1,929	1,605	234	160	127	3	20	12	15,005,953	5,291,160	3,350,596
Decatur.....	5,693	4,003	2,699	4,918	3,349	2,213	675	484	402	100	170	84	38,683,689	11,057,406	9,767,988
East St. Louis.....	8,785	5,863	5,226	8,337	5,750	5,006	420	95	156	28	18	64	77,292,812	26,904,565	18,103,788
Elgin.....	6,846	5,529	6,067	3,999	3,277	3,618	2,697	2,180	2,353	150	72	96	25,648,891	10,491,820	10,537,052
Evanston.....	1,405	924	837	1,227	899	754	169	24	82	9			9,791,025	3,984,824	3,778,298
Forest Park.....	192			181			10			1			1,016,236		
Freeport.....	3,177	2,566	2,853	2,714	2,372	2,585	400	173	245	54	21	23	18,405,204	7,446,977	7,811,277
Galesburg.....	2,222	1,362	1,465	1,915	1,212	1,266	215	147	186	92	3	13	10,352,242	3,102,129	2,919,091
Granite City.....	5,493	5,090		5,061	4,859		402	226		30	5		43,039,044	17,903,162	
Herrin.....	52			42			10						285,225		
Jacksonville.....	1,091	932	947	809	730	700	271	177	234	11	16	13	7,126,506	2,355,192	2,298,700
Joliet.....	11,259	4,909	6,383	10,295	4,443	5,834	945	552	523	19	4	26	82,669,536	30,091,415	38,816,523
Kankakee.....	1,959	1,430	1,349	1,202	989	938	606	389	348	151	52	63	7,287,117	3,193,020	2,723,171
Kewanee.....	3,009	2,837		3,393	2,462		478	348		38	27		10,278,598	5,446,615	
La Salle.....	1,792	1,214	936	1,777	1,179	909	12	8	0	3	27	18	9,533,706	5,245,780	4,327,551
Lincoln.....	194	239	220	144	220	204	45	17	15	5	2	1	784,734	560,637	570,243
Mattoon.....	1,134	735	948	1,072	997	916	60	38	32	2			4,051,058	1,543,727	1,434,420
Maywood.....	2,217			1,760			448						14,432,705		
Moline.....	5,444	5,053	5,387	5,129	4,854	5,170	289	170	175	26	29	42	44,871,021	19,925,106	20,663,848
Murphysboro.....	1,139			934			205						6,208,317		
Oak Park.....	383	268	282	353	253	276	29	15	6	1			2,280,640	1,555,083	1,117,697
Ottawa.....	729			637			92						3,223,647		
Pekin.....	934	634		894	598		38	35		2	1		25,663,968	9,609,500	
Peoria.....	7,977	6,285	5,681	6,369	5,182	5,213	1,409	972	722	109	131	46	57,074,893	64,689,045	63,061,155
Quincy.....	4,443	3,067	3,097	3,634	2,523	3,223	739	493	714	70	51	60	23,498,813	9,556,918	11,065,809
Rock Island.....	3,208	1,837	1,754	2,630	1,690	1,596	261	141	112	11	6	46	22,360,114	6,487,859	6,390,776
Rockford.....	14,092	10,472	9,309	12,233	8,654	7,615	2,662	1,767	1,499	97	51	195	74,918,953	26,371,219	22,265,740
Springfield.....	5,365	4,157	3,652	3,856	3,312	2,920	1,477	813	688	32	32	44	22,723,365	11,709,969	8,497,245
Streator.....	1,901	1,703	1,275	1,137	1,626	1,109	146	122	108	18	15	68	6,662,302	3,886,617	2,137,252
Urbana.....	509			414			46			49			1,450,522		
Waukegan.....	2,538	2,276	2,956	2,137	2,098	2,741	370	169	196	31	9	19	21,093,002	12,438,514	19,540,700

<sup>1</sup> Statistics for Cicero could not be shown in 1914 and 1909 without disclosure of individual operations.

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	650,664	517,034	<i>438,594</i>	94.3	99.2	88.0	July.....	638,082	505,082	454,410	92.6	97.0	91.1
February.....	643,541	518,292	442,881	93.3	99.3	88.8	August.....	658,478	502,693	460,414	95.4	96.3	92.3
March.....	636,041	521,762	452,563	92.2	100.0	90.8	September.....	681,270	504,543	451,786	98.7	96.7	96.6
April.....	620,500	514,505	455,145	89.9	98.6	91.3	October.....	681,015	505,655	493,928	98.7	96.9	99.1
May.....	<i>618,701</i>	508,665	454,965	89.7	97.7	91.2	November.....	689,945	488,164	496,452	100.0	93.6	99.6
June.....	628,740	512,246	459,375	91.1	98.2	92.1	December.....	680,491	<i>488,275</i>	<i>498,640</i>	99.9	92.6	100.0

<sup>1</sup> 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.....	653,114	650,064	643,541	636,041	620,500	618,701	628,740	638,982	658,478	681,270	681,015	689,945	689,491	89.7
Males.....	527,205	527,184	521,140	515,107	503,017	500,900	509,081	516,667	530,173	548,501	545,162	554,398	555,121	90.2
Females.....	125,909	123,480	122,392	120,934	117,483	117,801	119,659	122,315	128,305	132,769	135,853	135,547	134,370	86.5
Agricultural implements.....	22,548	24,513	25,045	24,474	22,811	21,940	21,613	22,448	18,920	21,784	21,848	22,016	23,164	75.5
Automobile bodies and parts.....	5,298	4,208	4,414	4,507	4,731	4,878	5,012	5,308	5,638	6,015	6,118	6,238	6,361	67.6
Automobiles.....	3,507	3,017	3,024	3,167	3,262	3,321	3,420	3,488	3,688	3,733	3,943	4,040	3,981	74.7
Automobile repairing.....	3,120	2,918	2,931	2,978	3,062	3,117	3,187	3,282	3,245	3,247	3,192	3,157	3,124	88.9
Bookbinding and blank-book making.....	2,395	2,164	2,209	2,280	2,308	2,337	2,349	2,424	2,499	2,501	2,533	2,560	2,876	84.0
Boots and shoes.....	7,684	7,563	7,761	7,806	7,909	8,163	7,431	7,933	7,978	8,200	8,453	8,570	8,737	64.2
Boxes, paper and other, not elsewhere specified.....	5,923	5,932	5,762	5,625	5,580	5,525	5,608	5,737	6,061	6,093	6,377	6,434	6,342	85.9
Boxes, wooden packing, except cigar boxes.....	4,524	5,024	4,873	4,742	4,457	4,547	4,608	2,965	4,692	4,495	4,621	4,655	4,609	59.0
Brass, bronze, and copper products.....	3,174	3,280	3,065	2,808	2,916	2,998	2,765	3,075	3,415	3,391	3,369	3,381	3,565	77.6
Bread and other bakery products.....	12,418	11,943	11,661	11,704	12,284	11,837	12,340	12,901	12,793	12,733	13,084	13,132	13,184	85.4
Brick and tile, terra-cotta, and fire-clay products.....	5,627	3,230	3,257	3,842	4,987	5,768	6,245	6,629	6,879	7,005	7,443	6,733	5,547	43.5
Carriages and wagons, including repairs.....	2,303	2,412	2,306	2,235	2,159	2,118	1,903	2,140	2,247	2,458	2,589	2,525	2,484	75.8
Cars and general shop construction and repairs by electric-railroad companies.....	3,151	3,256	3,252	3,219	3,099	2,992	2,915	2,842	2,943	3,103	3,310	3,407	3,474	81.8
Cars and general shop construction and repairs by steam-railroad companies.....	40,219	40,390	40,107	39,616	39,116	38,978	39,148	39,552	39,669	40,801	41,532	41,883	41,830	93.1
Cars, steam-railroad, not including operations of railroad companies.....	13,775	15,964	15,150	15,942	15,599	12,669	12,054	11,161	12,846	13,489	14,067	13,458	12,711	69.9
Chemicals.....	3,004	3,039	2,812	2,847	2,670	2,572	2,694	2,831	3,230	3,301	3,544	3,452	3,210	72.5
Clothing, men's.....	32,896	27,825	29,200	30,050	29,408	30,266	31,774	33,032	35,031	36,468	38,088	36,884	37,130	73.1
Clothing, women's.....	10,278	9,093	10,071	10,390	10,399	9,705	9,844	9,871	10,948	11,230	11,052	10,543	10,125	80.7
Confectionery and ice cream.....	8,779	7,738	8,333	8,258	7,951	7,705	7,821	7,407	8,387	10,214	10,690	10,479	9,305	69.3
Copper, tin, and sheet-iron work.....	2,232	1,985	1,908	1,995	2,030	2,156	2,251	2,326	2,285	2,396	2,459	2,453	2,440	79.9
Corsets.....	2,273	2,162	2,147	2,141	2,176	2,208	2,167	2,198	2,233	2,247	2,459	2,499	2,579	83.0
Electrical machinery, apparatus, and supplies.....	27,290	26,772	25,804	25,660	25,705	25,868	26,046	26,241	27,346	28,129	29,117	29,837	30,965	82.8
Engines, steam, gas, and water.....	8,045	9,821	9,583	9,325	8,455	8,382	7,955	7,735	8,061	8,519	8,518	8,497	8,839	79.3
Flour-mill and gristmill products.....	2,740	2,680	2,597	2,667	2,580	2,579	2,577	2,701	2,875	2,937	2,934	2,934	2,919	87.4
Food preparations, not elsewhere specified.....	4,061	4,369	4,288	4,091	3,748	3,658	3,805	3,929	4,278	4,301	4,150	4,073	4,062	83.3
Foundry and machine-shop products.....	45,879	45,512	44,434	43,094	42,205	41,921	42,770	44,888	45,726	47,711	49,404	51,077	51,806	80.9
Furniture.....	12,294	10,821	11,089	11,541	10,036	10,925	12,402	12,920	13,334	13,183	13,487	13,857	13,924	72.1
Gas, illuminating and heating.....	4,430	4,986	4,558	4,414	4,268	4,382	4,262	4,341	4,432	4,258	4,391	4,395	4,473	85.4
Glass.....	4,065	4,260	4,291	4,196	4,249	4,024	4,086	4,014	3,957	4,027	3,946	3,905	3,825	89.1
Hardware.....	4,914	4,706	4,723	4,670	4,665	4,444	4,617	4,925	5,038	5,015	5,180	5,472	5,513	80.6
Instruments, professional and scientific.....	3,621	3,314	3,456	3,458	3,481	3,420	3,603	3,760	3,860	3,820	3,767	3,846	3,664	85.9
Iron and steel, blast furnaces.....	2,120	2,571	2,382	2,172	2,006	1,806	1,840	2,075	2,276	2,304	1,219	2,478	2,410	47.4
Iron and steel, steel works and rolling mills.....	20,177	25,039	25,795	23,613	21,561	20,059	18,510	18,660	19,452	20,302	13,330	18,274	17,520	51.7
Iron and steel forgings, not made in steel works or rolling mills.....	2,328	2,826	2,745	2,618	2,551	2,269	1,745	1,911	2,072	2,273	2,288	2,334	2,304	61.7
Knit goods.....	5,095	5,017	5,017	4,988	4,940	5,066	5,090	5,133	5,160	5,124	5,185	5,213	5,159	94.8
Leather, tanned, curried, and finished.....	4,434	4,144	4,189	4,235	4,264	4,241	4,363	4,578	4,680	4,573	4,633	4,694	4,614	88.3
Liquors, malt.....	2,706	2,712	2,717	2,686	2,940	2,930	3,169	3,243	3,088	2,742	2,652	2,400	2,273	70.1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	5,147	4,292	4,216	4,268	4,573	4,923	5,345	5,710	5,654	5,613	5,717	5,766	5,667	72.9
Machine tools.....	3,273	3,385	3,356	3,336	3,156	2,843	2,713	2,971	3,212	3,380	3,537	3,636	3,651	72.3
Millinery and lace goods, not elsewhere specified.....	4,830	4,781	5,128	4,976	5,003	4,389	4,173	4,619	4,889	4,703	5,079	5,126	5,094	81.4
Musical instruments, pianos.....	6,991	6,417	6,530	6,730	6,862	6,893	6,946	6,988	7,122	7,222	7,439	7,377	7,366	86.3
Paints.....	2,640	2,572	2,545	2,548	2,482	2,500	2,502	2,560	2,559	2,781	2,820	2,800	3,002	82.7
Petroleum, refining.....	2,448	2,354	2,377	2,477	2,424	2,380	2,416	2,488	2,439	2,374	2,524	2,589	2,634	90.9
Pickles, preserves, and sauces.....	2,255	1,982	1,865	1,924	2,055	2,233	2,163	1,858	1,990	2,900	3,083	2,576	2,441	60.2
Plumbers' supplies, not elsewhere specified.....	2,096	2,078	1,880	1,838	1,704	1,914	2,019	2,126	2,120	2,132	2,360	2,493	2,488	68.4
Printing and publishing, book and job.....	21,639	21,255	21,431	20,963	20,234	20,378	20,749	21,626	22,529	22,639	21,807	22,533	23,474	86.4
Printing and publishing, newspapers and periodicals.....	10,120	9,993	10,015	10,079	9,976	10,062	10,074	10,075	10,088	10,150	10,249	10,314	10,395	95.8
Roofing materials.....	2,722	2,252	2,074	2,332	2,497	2,478	2,820	2,967	3,002	3,041	3,072	3,004	3,125	66.4
Slaughtering and meat packing.....	54,179	65,114	59,864	55,397	50,427	50,048	51,711	52,297	52,435	52,671	52,946	53,720	53,609	76.9
Smelting and refining, zinc.....	4,224	4,791	4,543	4,311	4,141	4,100	4,068	4,180	4,292	4,328	4,277	3,622	4,030	75.6
Soap.....	2,270	2,383	2,222	1,959	1,970	2,144	2,236	2,374	2,451	2,507	2,474	2,341	2,179	78.1
Stamped and enameled ware, not elsewhere specified.....	2,450	1,824	2,356	2,312	2,312	2,427	2,505	2,306	2,580	2,560	2,668	2,744	2,797	65.2
Steam fittings and steam and hot-water heating apparatus.....	9,928	10,548	10,490	10,471	10,048	9,898	8,360	6,685	6,623	10,726	11,421	11,767	12,099	54.7
Stoves and hot-air furnaces.....	4,880	5,304	4,102	4,541	4,521	5,174	5,322	5,061	5,225	5,217	5,479	5,484	5,130	60.2
Structural iron work, not made in steel works or rolling mills.....	3,790	4,348	4,007	3,757	3,629	3,457	3,501	3,638	3,822	3,915	3,650	3,705	4,051	79.5
Tinware, not elsewhere specified.....	5,927	6,116	5,944	5,783	5,512	5,721	5,903	6,649	6,519	6,048	5,850	5,507	5,482	82.4
Tobacco, cigars and cigarettes.....	3,363	3,652	3,630	3,632	3,583	3,611	3,693	3,792	3,792	2,676	2,789	3,368	3,653	73.3
Tools, not elsewhere specified.....	2,998	3,153	2,864	2,821	2,797	2,731	2,777	2,924	3,033	3,123	3,199	3,247	3,307	82.6
Wire.....	2,776	3,188	3,129	3,072	2,947	2,883	2,960	3,102	3,309	3,129	1,468	1,887	2,216	44.4
All other industries.....	142,143	133,642	151,632	132,652	133,337	136,050	139,832	141,691	147,445	153,214	162,135	152,920	150,866	86.1
Industries showing large proportion of females.														
Bookbinding and blank-book making.....	1,108	1,040	1,035	1,066										



## MANUFACTURES—ILLINOIS.

11

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.												Percent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Industries showing large proportion of females—Continued.														
Food preparations, not elsewhere specified.....	1,318	1,448	1,425	1,349	1,233	1,166	1,200	1,233	1,376	1,408	1,358	1,315	1,305	80.5
Instruments, professional and scientific.....	780	713	713	700	705	770	806	864	855	814	811	843	766	81.0
Knit goods.....	3,645	3,582	3,602	3,660	3,568	3,646	3,651	3,719	3,679	3,656	3,687	3,723	3,607	95.6
Millinery and lace goods, not elsewhere specified.....	3,812	3,767	4,027	3,885	3,932	3,450	3,231	3,677	3,880	3,733	4,057	4,080	4,025	79.2
Pickles, preserves, and sauces.....	1,205	1,064	986	1,044	1,094	1,239	1,164	1,034	1,084	1,560	1,640	1,312	1,230	50.8
Printing and publishing, book and job.....	5,256	5,207	5,305	5,434	4,888	4,750	4,851	5,107	5,472	5,526	5,252	5,379	5,811	81.7
Printing and publishing, newspapers and periodicals.....	1,844	1,834	1,834	1,895	1,802	1,818	1,831	1,810	1,830	1,822	1,836	1,899	1,908	94.4
Slaughtering and meat packing.....	7,048	9,622	8,611	7,394	6,233	6,172	6,105	6,117	6,565	6,730	7,005	7,394	6,619	63.4
Soap.....	848	870	788	707	725	780	803	884	918	991	970	893	847	71.3
Stamped and enameled ware, not elsewhere specified.....	738	680	819	727	678	716	736	672	748	746	760	780	795	82.1
Tinware, not elsewhere specified.....	2,019	2,165	1,871	1,938	1,828	1,936	1,927	2,209	2,297	2,051	2,127	2,019	1,860	79.6
Tobacco, cigars and cigarettes.....	1,017	1,080	1,070	1,071	1,034	1,046	1,067	1,008	847	855	920	1,056	1,150	73.7
Total for cities.....	555,930	555,002	551,461	544,261	528,894	525,519	533,308	542,805	550,974	576,739	578,264	588,598	589,335	89.2
Males.....	442,396	443,722	440,673	434,768	422,537	419,113	425,834	432,455	441,002	458,159	456,582	466,248	468,029	89.5
Females.....	113,534	111,280	110,788	109,493	106,357	106,406	107,474	110,350	115,372	118,580	122,682	122,350	121,306	86.7
ALTON.....	3,236	3,196	3,180	3,194	3,212	3,165	3,163	3,179	3,287	3,333	3,315	3,282	3,317	94.9
Males.....	2,752	2,736	2,730	2,737	2,747	2,706	2,702	2,714	2,771	2,816	2,798	2,766	2,801	96.0
Females.....	484	460	450	457	465	459	461	465	516	517	517	516	516	88.4
AURORA.....	6,608	6,411	6,434	6,581	6,358	6,362	6,460	6,723	6,761	6,537	6,833	6,969	6,817	91.2
Males.....	5,455	5,277	5,293	5,420	5,217	5,238	5,340	5,546	5,586	5,396	5,690	5,790	5,601	90.1
Females.....	1,153	1,164	1,141	1,161	1,141	1,124	1,114	1,177	1,165	1,141	1,143	1,179	1,186	93.9
BELLEVIEW.....	3,160	2,558	2,667	3,030	3,115	3,106	3,214	3,316	3,311	3,338	3,334	3,304	3,327	79.6
Males.....	2,417	1,832	2,223	2,279	2,364	2,380	2,467	2,563	2,551	2,580	2,610	2,561	2,604	69.8
Females.....	743	736	744	751	751	726	747	753	760	758	724	743	723	95.1
BERWYN.....	25	22	21	22	24	27	29	25	25	27	27	26	25	72.4
Males.....	20	17	16	17	19	22	24	20	20	22	22	21	20	66.7
Females.....	5	5	5	5	5	5	5	5	5	5	5	5	5	100.0
BLOOMINGTON.....	2,818	2,728	2,738	2,775	2,704	2,738	2,781	2,871	2,854	2,856	2,876	2,912	2,893	93.7
Males.....	2,525	2,460	2,446	2,483	2,493	2,452	2,479	2,572	2,554	2,583	2,584	2,602	2,602	94.0
Females.....	293	278	292	292	301	286	302	299	300	273	292	310	291	88.1
BLUE ISLAND.....	1,180	824	824	968	1,178	1,302	1,311	905	926	1,388	1,610	1,520	1,404	51.2
Males.....	987	668	669	797	979	1,047	1,064	849	887	1,168	1,298	1,260	1,171	51.5
Females.....	193	156	155	171	199	255	247	56	59	220	314	251	233	17.8
CAIRO.....	1,792	1,760	1,658	1,695	1,520	1,720	1,814	1,810	1,937	1,822	1,739	1,936	2,043	74.4
Males.....	1,622	1,584	1,497	1,505	1,353	1,544	1,643	1,636	1,734	1,681	1,624	1,804	1,859	72.8
Females.....	170	176	161	190	167	176	171	174	203	141	115	182	184	56.7
CANTON.....	1,296	1,549	1,537	1,336	1,102	946	575	1,301	1,324	1,324	1,378	1,308	1,872	30.7
Males.....	1,075	1,326	1,304	1,108	866	752	395	1,085	1,068	1,089	1,139	1,067	1,641	24.1
Females.....	221	223	233	228	236	194	180	216	256	235	239	241	231	74.7
CENTRALIA.....	1,003	1,014	993	969	938	958	953	977	1,011	1,030	1,069	1,053	1,071	87.6
Males.....	795	807	790	771	739	753	752	774	813	818	844	833	846	87.4
Females.....	208	207	203	198	199	205	201	203	198	212	225	220	225	88.0
CHAMPAIGN.....	1,063	955	907	923	970	1,042	1,054	1,054	1,115	1,124	1,104	1,226	1,212	74.0
Males.....	959	849	842	850	897	945	950	956	1,008	1,008	1,046	1,084	1,075	77.7
Females.....	104	107	65	73	82	97	104	98	107	116	118	142	137	45.8
CHICAGO.....	403,942	405,697	399,849	395,481	385,060	381,080	387,200	393,444	402,439	419,325	410,774	428,702	428,353	89.1
Males.....	313,560	317,776	311,868	308,161	300,424	297,632	302,121	305,508	309,954	324,522	321,685	331,036	332,132	89.6
Females.....	90,382	87,921	87,981	87,320	84,636	83,447	85,079	87,936	92,485	94,803	98,089	97,666	96,221	86.1
CHICAGO HEIGHTS.....	5,328	5,557	5,353	5,280	4,882	4,610	5,099	5,276	5,177	5,455	5,653	5,755	5,589	84.8
Males.....	4,968	5,173	4,970	4,888	4,601	4,616	4,741	4,946	4,808	5,073	5,239	5,331	5,180	86.1
Females.....	360	384	383	392	281	294	358	330	369	382	414	424	409	68.6
CICERO.....	14,754	14,187	14,023	14,006	14,032	14,209	14,385	14,435	14,789	15,072	15,778	15,649	16,486	85.0
Males.....	11,704	11,016	11,080	11,053	11,062	11,217	11,414	11,639	11,859	11,965	12,611	12,433	13,118	84.0
Females.....	3,050	3,171	2,943	2,953	2,970	2,992	2,971	2,796	2,927	3,107	3,167	3,216	3,368	88.3
DANVILLE.....	3,343	3,485	3,470	3,457	3,436	3,294	3,189	3,180	3,199	3,233	3,354	3,426	3,443	90.1
Males.....	3,169	3,245	3,225	3,209	3,208	3,065	2,920	2,947	2,960	3,008	3,134	3,183	3,198	90.0
Females.....	234	240	245	248	228	229	210	233	239	225	220	243	245	88.3
DECATUR.....	5,693	5,266	5,369	5,179	5,159	5,166	5,443	5,687	5,848	6,038	6,325	6,369	6,466	79.8
Males.....	4,997	4,472	4,606	4,539	4,530	4,541	4,819	5,076	5,182	5,345	5,670	5,589	5,695	78.5
Females.....	696	794	763	640	609	625	624	611	666	693	656	780	771	77.0
EAST ST. LOUIS.....	8,785	9,804	9,705	8,205	8,096	7,833	8,090	8,407	8,869	9,057	9,268	9,253	8,923	79.9
Males.....	8,362	9,303	9,271	7,810	7,654	7,496	7,704	7,999	8,523	8,575	8,770	8,777	8,452	80.6
Females.....	423	501	434	395	362	337	386	408	346	482	498	476	471	67.3
ELGIN.....	6,846	6,663	6,714	6,712	6,782	6,391	6,713	6,782	6,853	6,996	7,106	7,199	7,241	88.3
Males.....	4,062	3,811	3,910	3,944	3,902	3,777	4,033	4,086	4,155	4,211	4,260	4,277	4,318	87.5
Females.....	2,784	2,852	2,804	2,768	2,820	2,614	2,680	2,696	2,698	2,785	2,846	2,922	2,923	89.4
EVANSTON.....	1,405	1,344	1,300	1,420	1,408	1,420	1,434	1,474	1,506	1,323	1,180	1,441	1,540	75.3
Males.....	1,233	1,190	1,241	1,267	1,252	1,265	1,279	1,314	1,324	1,140	967	1,240	1,308	73.0
Females.....	172	145	149	153	156	155	155	160	182	183	193	201	232	62.5
FOREST PARK.....	192	114	148	160	182	202	214	219	209	222	217	216	201	51.4
Males.....	182	108	141	150	171	191	203	208	198	212	206	206	190	50.9
Females.....	10	6	7	10	11	11	11	11	11	10	11	10	11	54.5



## MANUFACTURES—ILLINOIS.

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.												Percent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
FREEDPORT.....	3,177	<i>2,681</i>	2,781	2,843	2,785	3,114	3,039	3,227	3,347	3,487	3,482	3,644	3,694	72.6
Males.....	2,740	<i>2,249</i>	2,364	2,432	2,364	2,704	2,610	2,764	2,880	3,002	3,002	3,175	3,234	72.6
Females.....	437	<i>432</i>	417	411	421	410	429	463	467	485	480	469	460	68.5
GALESBURG.....	2,222	2,111	2,076	<i>1,986</i>	2,024	2,104	2,111	2,204	2,363	2,381	2,531	2,420	2,233	78.5
Males.....	2,007	1,895	1,851	<i>1,789</i>	1,830	1,904	1,906	2,052	2,148	2,170	2,302	2,184	1,993	77.7
Females.....	215	210	225	<i>197</i>	194	200	205	212	215	211	229	236	240	80.8
GRANITE CITY.....	5,493	5,079	7,123	6,894	6,100	5,624	4,904	<i>5,913</i>	4,495	5,550	6,321	5,620	4,284	54.9
Males.....	5,089	4,704	6,659	6,492	5,843	5,192	4,393	<i>5,607</i>	4,239	5,106	5,935	5,175	3,763	52.7
Females.....	404	375	464	402	257	432	511	406	256	444	386	454	521	49.1
HERRIN.....	52	<i>43</i>	<i>43</i>	48	53	55	61	63	61	56	53	45	43	68.3
Males.....	42	<i>33</i>	<i>33</i>	38	43	45	51	53	51	46	43	35	33	62.3
Females.....	10	10	10	10	10	10	10	10	10	10	10	10	10	100.0
JACKSONVILLE.....	1,091	1,051	1,060	<i>1,041</i>	1,061	1,076	1,143	1,127	1,122	1,064	1,063	1,133	1,151	90.4
Males.....	813	792	797	778	785	804	851	846	859	788	790	836	830	90.6
Females.....	278	<i>259</i>	263	263	276	272	292	281	263	276	273	297	321	80.7
JOLIET.....	11,259	12,120	11,877	11,810	11,567	11,569	11,729	11,777	12,007	11,523	<i>9,034</i>	9,608	10,397	74.5
Males.....	10,311	11,034	10,997	11,010	10,831	10,728	10,853	10,847	11,138	10,520	<i>7,860</i>	8,549	9,267	71.5
Females.....	948	1,086	880	800	736	841	876	930	869	1,003	1,074	1,059	1,130	65.1
KANKAKEE.....	1,959	1,901	1,903	1,914	1,873	1,877	1,984	1,998	1,985	2,071	2,073	1,996	1,933	90.4
Males.....	1,298	1,254	1,241	1,270	1,228	1,249	1,320	1,338	1,328	1,365	1,373	1,348	1,262	89.4
Females.....	661	647	662	644	645	628	664	660	657	706	700	648	671	89.0
KEWANEE.....	3,909	<i>2,871</i>	3,536	3,535	3,231	3,670	3,666	3,838	3,992	4,320	4,006	4,724	5,039	57.0
Males.....	3,414	<i>2,333</i>	3,027	3,027	2,775	3,109	3,194	3,358	3,505	3,870	4,083	4,746	4,441	62.5
Females.....	495	538	509	488	456	461	472	480	487	450	523	478	598	75.3
LA SALLE.....	1,792	1,764	1,739	1,696	1,743	1,703	1,748	1,783	1,900	1,957	1,978	1,853	<i>1,640</i>	82.9
Males.....	1,779	1,744	1,727	1,684	1,730	1,690	1,735	1,770	1,889	1,945	1,966	1,841	<i>1,637</i>	82.8
Females.....	13	20	12	12	13	13	13	13	11	12	12	12	13	55.0
LINCOLN.....	194	159	<i>153</i>	160	155	157	165	162	159	232	308	251	267	49.7
Males.....	146	128	<i>126</i>	128	123	131	138	136	133	158	207	168	171	60.9
Females.....	48	31	27	32	27	26	27	26	26	74	101	83	96	25.7
MATTOON.....	1,134	1,102	1,101	1,096	1,081	1,082	1,123	1,120	1,157	1,161	1,175	1,207	1,203	89.6
Males.....	1,074	1,055	1,054	1,049	1,034	1,035	1,076	1,072	1,076	1,089	1,094	1,130	1,127	91.5
Females.....	60	47	47	47	47	47	47	48	81	75	81	77	76	58.0
MAYWOOD.....	2,217	2,303	2,145	2,028	<i>1,954</i>	1,994	2,101	2,415	2,457	2,441	2,249	2,184	2,243	79.5
Males.....	1,769	1,800	1,810	1,658	<i>1,582</i>	1,625	1,717	1,803	1,913	1,916	1,751	1,735	1,817	82.5
Females.....	448	503	339	370	372	369	474	612	544	525	498	449	426	61.0
MOLINE.....	5,444	<i>5,838</i>	5,754	5,458	5,199	5,131	<i>4,946</i>	4,985	5,276	5,504	5,080	5,755	5,802	84.7
Males.....	5,150	<i>5,560</i>	5,446	5,181	4,910	4,854	<i>4,648</i>	4,693	4,970	5,190	5,372	5,453	5,508	83.6
Females.....	294	278	308	277	283	277	298	292	306	305	308	302	294	89.9
MURPHYSBORO.....	1,130	<i>1,048</i>	1,077	1,118	1,091	1,051	1,130	1,127	1,227	1,232	1,194	1,189	1,185	84.9
Males.....	904	<i>836</i>	888	929	905	841	930	918	1,010	1,016	981	976	978	82.3
Females.....	205	210	189	189	186	210	200	209	217	216	213	213	208	85.7
OAK PARK.....	353	<i>344</i>	346	361	366	390	403	398	407	408	395	389	389	84.3
Males.....	353	<i>314</i>	315	330	340	360	374	369	376	377	364	358	359	83.3
Females.....	30	30	31	31	26	30	29	29	31	31	31	31	30	83.9
OTTAWA.....	729	<i>575</i>	<i>568</i>	573	615	653	728	802	830	832	840	861	872	64.0
Males.....	637	<i>522</i>	<i>499</i>	510	543	569	644	702	730	717	726	736	746	66.9
Females.....	92	<i>53</i>	<i>59</i>	63	72	84	84	100	109	115	114	125	126	42.1
PEKIN.....	934	1,062	984	779	902	975	1,023	<i>451</i>	497	1,065	1,219	1,157	1,094	37.0
Males.....	896	990	920	746	849	920	959	<i>433</i>	481	1,047	1,198	1,136	1,073	36.1
Females.....	38	72	64	33	53	55	64	<i>18</i>	16	18	21	21	21	22.2
PEORIA.....	7,977	8,113	8,060	8,104	7,724	7,831	8,172	<i>8,447</i>	8,162	<i>7,643</i>	7,674	7,803	7,991	90.5
Males.....	6,591	6,651	6,658	6,722	6,476	6,450	6,870	<i>7,118</i>	6,818	<i>6,273</i>	6,198	6,408	6,450	87.1
Females.....	1,386	1,462	1,402	1,382	<i>1,248</i>	1,381	1,302	<i>1,329</i>	1,344	1,370	1,476	1,395	1,541	81.0
QUINCY.....	4,443	4,062	4,061	3,966	<i>5,072</i>	4,012	4,269	4,496	4,758	4,819	4,941	5,089	5,171	71.0
Males.....	3,672	3,307	3,269	3,208	<i>4,089</i>	3,294	3,556	3,762	3,970	4,041	4,130	4,227	4,311	69.3
Females.....	771	755	792	758	<i>683</i>	718	713	734	788	778	811	862	860	79.2
ROCK ISLAND.....	3,208	<i>3,689</i>	3,596	3,412	3,038	2,846	2,910	<i>2,690</i>	3,203	3,221	3,206	3,259	3,417	72.9
Males.....	2,943	<i>3,401</i>	3,324	3,163	2,828	2,630	2,658	<i>2,448</i>	2,945	2,937	2,907	2,964	3,111	72.0
Females.....	265	288	272	249	<i>210</i>	216	251	<i>242</i>	258	284	299	295	306	68.6
ROCKFORD.....	14,992	14,726	14,809	14,782	12,790	<i>12,516</i>	13,526	14,772	15,574	15,772	16,554	16,959	17,124	73.1
Males.....	12,318	12,039	12,144	12,157	10,247	<i>10,011</i>	10,998	12,071	13,122	13,743	14,133	14,333	14,819	69.9
Females.....	2,674	2,687	2,665	2,625	2,543	<i>2,505</i>	2,528	2,701	2,742	2,650	2,811	2,826	2,805	88.6
SPRINGFIELD.....	5,365	5,038	5,156	<i>5,031</i>	5,171	5,184	5,227	5,280	5,508	5,594	5,769	5,685	5,737	87.2
Males.....	3,874	<i>3,579</i>	3,676	3,565	3,715	3,753	3,813	3,898	3,908	4,019	4,086	4,105	4,241	84.4
Females.....	1,491	1,459	1,480	<i>1,366</i>	1,456	1,431	1,414	1,412	1,540	1,575	1,683	1,580	1,496	81.2
STREATOR.....	1,301	<i>1,090</i>	1,164	1,109	1,328	1,306	1,415	1,416	1,494	1,419	1,357	1,355	1,159	73.0
Males.....	1,153	<i>1,005</i>	1,077	1,020	1,229	1,195	1,277	1,276	1,296	1,216	1,150	1,142	<i>854</i>	73.6
Females.....	148	<i>85</i>	87	89	99	111	138	141	198	203	207	213	205	89.9
URBANA.....	509	492	497	494	453	<i>446</i>	458	511	549	550	553	550	555	80.4
Males.....	463	445	448	445	409	<i>402</i>	414	468	505	505	507	501	507	79.3
Females.....	46	47	49	49	44	44	44	43	44	45	46	49	48	87.8
WAUKEGAN.....	2,538	2,577	2,573	2,700	2,751	2,422	2,187	2,678	2,918	2,937	<i>2,088</i>	2,257	2,458	69.1
Males.....	2,146	2,253	2,195	2,349	2,390	2,018	1,793	2,265	2,510	2,516	<i>1,819</i>	1,813	2,026	64.3
Females.....	392	<i>324</i>	378	351	361	404	394	413	408	421	409	443	432	78.8



## MANUFACTURES—ILLINOIS.

13

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	653, 114	95, 221	28, 194	229, 427	146, 879	44, 746	68, 615	22, 881	17, 151
	1914	506, 943	(*)	(*)	79, 601	99, 322	113, 574	102, 074	88, 238	24, 134
	1909	465, 704	(*)	(*)	55, 055	50, 781	120, 236	95, 908	106, 090	37, 694
Agricultural implements.....	1919	22, 548	(*)	(*)	179	17, 732	3, 086	1, 339	212	.....
	1914	19, 556	(*)	(*)	1, 197	730	566	13, 752	3, 311	.....
Automobile bodies and parts.....	1919	5, 298	83	22	798	2, 291	902	1, 126	76	.....
	1914	1, 236	(*)	(*)	73	447	410	215	91	.....
Automobiles.....	1919	3, 597	876	146	911	1, 443	53	78	.....	.....
	1914	1, 309	(*)	(*)	110	92	423	682	2	.....
Automobile repairing.....	1919	3, 120	291	11	516	611	749	119	778	45
	1914	750	(*)	(*)	23	39	328	51	295	23
Bookbinding and blank-book making.....	1919	2, 395	96	174	1, 328	797	.....	.....	.....	.....
	1914	2, 460	(*)	(*)	1, 046	862	528	24	.....	.....
Boots and shoes.....	1919	7, 084	573	148	3, 117	2, 075	821	950	.....	.....
	1914	6, 071	(*)	(*)	18	195	1, 175	4, 503	180	.....
Boxes, paper and other, not elsewhere specified.....	1919	5, 923	14	131	1, 784	3, 232	138	526	98	.....
	1914	4, 586	(*)	(*)	414	843	846	2, 145	139	170
Boxes, wooden packing, except cigar boxes.....	1919	4, 524	1, 239	255	192	418	347	1, 657	416	.....
	1914	4, 438	(*)	(*)	105	120	324	3, 297	586	.....
Brass, bronze, and copper products.....	1919	3, 174	228	32	1, 301	849	373	302	80	.....
	1914	1, 502	(*)	(*)	80	169	819	323	111	.....
Bread and other bakery products.....	1919	12, 418	347	3, 357	4, 480	1, 015	2, 287	163	610	159
	1914	10, 404	(*)	(*)	964	2, 046	4, 678	480	2, 064	172
Brick and tile, terra-cotta, and fire-clay products.....	1919	5, 027	34	30	2, 274	621	1, 240	95	1, 332	1
	1914	7, 151	(*)	(*)	2, 070	692	1, 464	613	1, 956	350
Carrriages and wagons, including repairs.....	1919	2, 303	13	.....	122	1, 481	112	524	51	.....
	1914	4, 275	(*)	(*)	434	198	877	2, 342	424	.....
Cars and general shop construction and repairs by electric-railroad companies.....	1919	3, 151	577	.....	1, 629	68	626	44	27	180
	1914	1, 813	(*)	(*)	3	4	1, 400	19	247	140
Cars and general shop construction and repairs by steam-railroad companies.....	1919	40, 219	67	10, 404	22, 748	2, 093	1, 259	3, 560	88	.....
	1914	28, 682	(*)	(*)	5, 863	6, 491	11, 236	104	1, 551	3, 437
Cars, steam-railroad, not including operations of railroad companies.....	1919	13, 775	14	.....	2, 134	7, 083	.....	4, 544	.....	.....
	1914	18, 000	.....	.....	.....	1, 099	12, 949	1, 115	2, 927	.....
Chemicals.....	1919	3, 004	1	.....	1, 042	65	497	58	375	66
	1914	1, 682	(*)	(*)	23	10	62	15	351	1, 221
Clothing, men's.....	1919	32, 896	30, 009	87	1, 918	693	119	70	.....	.....
	1914	34, 152	(*)	(*)	7, 318	10, 117	4, 814	2, 674	223	1
Clothing, women's.....	1919	10, 278	7, 738	958	1, 078	491	13	.....	.....	.....
	1914	8, 113	(*)	(*)	671	4, 363	2, 213	815	51	.....
Confectionery and ice cream.....	1919	8, 770	5, 992	78	714	387	473	412	356	367
	1914	5, 829	(*)	(*)	274	727	1, 509	1, 730	1, 242	317
Copper, tin, and sheet-iron work.....	1919	2, 232	776	8	407	445	367	119	107	3
	1914	2, 490	(*)	(*)	1, 363	259	390	274	204	.....
Corsets.....	1919	2, 273	280	395	1, 106	492	.....	.....	.....	.....
	1914	1, 974	(*)	(*)	227	494	408	845	.....	.....
Electrical machinery, apparatus, and supplies.....	1919	27, 200	1, 227	309	17, 856	5, 039	1, 775	474	10	.....
	1914	16, 483	(*)	(*)	352	14, 680	750	687	14	.....
Engines, steam, gas, and water.....	1919	8, 645	.....	.....	2, 870	3, 323	1, 372	918	159	3
	1914	1, 860	.....	.....	.....	70	515	1, 190	85	.....
Flour-mill and gristmill products.....	1919	2, 740	144	.....	710	168	328	119	1, 111	162
	1914	2, 398	(*)	(*)	97	4	111	82	1, 294	810
Food preparations, not elsewhere specified.....	1919	4, 061	176	14	1, 589	477	330	172	1, 277	26
	1914	1, 700	(*)	(*)	100	240	209	293	874	74
Foundry and machine-shop products <sup>1</sup> .....	1919	49, 456	5, 807	1, 006	9, 313	13, 077	7, 846	9, 880	2, 427	4
	1914	37, 136	(*)	(*)	2, 896	5, 976	13, 496	9, 184	5, 574	4
Furniture.....	1919	12, 294	965	54	691	6, 800	1, 044	1, 274	566	.....
	1914	13, 350	(*)	(*)	915	1, 727	4, 326	2, 625	3, 757	.....
Gas, illuminating and heating.....	1919	4, 430	4	.....	619	6	75	3, 032	252	442
	1914	3, 890	(*)	(*)	15	.....	100	2, 801	125	849
Glass.....	1919	4, 085	1, 828	277	1, 513	7	440	.....	.....	.....
	1914	3, 764	(*)	(*)	180	1, 263	663	1, 393	320	.....
Hardware.....	1919	4, 914	188	8	1, 196	1, 272	308	1, 516	426	.....
	1914	4, 055	(*)	(*)	123	744	967	999	1, 202	.....
Instruments, professional and scientific.....	1919	3, 621	2, 020	75	574	300	46	.....	.....	.....
	1914	1, 164	(*)	(*)	13	322	691	78	.....	.....
Iron and steel, blast furnaces.....	1919	2, 129	272	.....	203	.....	.....	.....	.....	1, 594
	1914	1, 460	.....	.....	.....	.....	.....	.....	682	768
Iron and steel, steel works and rolling mills.....	1919	20, 177	501	404	5, 359	578	478	2, 730	798	9, 329
	1914	15, 408	(*)	(*)	1, 469	2, 093	639	94	2, 666	8, 547

<sup>1</sup> Includes 48 and under for 1914 and 1909.  
<sup>2</sup> Corresponding figures not available.

<sup>3</sup> Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks."



## MANUFACTURES—ILLINOIS.

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. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Iron and steel forgings, not made in steel works or rolling mills.	1919	2,328	7	210	46	536	610	828	.....	91
	1914	750	( <sup>2</sup> )	( <sup>2</sup> )	95	51	311	240	53	.....
Knit goods.	1919	5,095	509	657	989	2,066	2	872	.....	.....
	1914	3,535	( <sup>2</sup> )	( <sup>2</sup> )	206	525	511	1,786	447	.....
Leather, tanned, curried, and finished.	1919	4,434	.....	.....	1	3,287	246	82	187	631
	1914	2,678	.....	.....	.....	102	78	2,138	300	.....
Liquors, malt.	1919	2,796	400	113	2,119	39	76	17	32	.....
	1914	5,749	( <sup>2</sup> )	( <sup>2</sup> )	5,066	193	354	114	22	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	5,147	2,066	39	385	1,113	702	619	223	.....
	1914	7,734	( <sup>2</sup> )	( <sup>2</sup> )	677	2,527	2,404	861	1,186	19
Millinery and lace goods, not elsewhere specified.	1919	4,830	1,386	1,134	1,029	867	305	47	.....	62
	1914	3,323	( <sup>2</sup> )	( <sup>2</sup> )	641	1,118	609	716	239	.....
Musical instruments, pianos.	1919	6,991	1,567	.....	334	4,190	539	361	.....	.....
	1914	6,682	( <sup>2</sup> )	( <sup>2</sup> )	234	1,051	3,405	1,554	438	.....
Paints.	1919	2,640	45	.....	353	859	177	1,131	75	.....
	1914	1,670	( <sup>2</sup> )	( <sup>2</sup> )	12	185	329	949	100	35
Petroleum, refining.	1919	2,448	.....	.....	312	1,568	.....	541	15	12
	1914	1,072	.....	.....	.....	.....	249	.....	302	521
Pickles, preserves, and sauces.	1919	2,255	60	123	277	1,415	45	148	187	.....
	1914	1,192	( <sup>2</sup> )	( <sup>2</sup> )	6	57	175	837	112	5
Plumbers' supplies, not elsewhere specified.	1919	2,096	888	.....	284	154	698	72	.....	.....
	1914	3,422	( <sup>2</sup> )	( <sup>2</sup> )	16	43	2,989	95	279	.....
Printing and publishing, book and job.	1919	21,639	982	112	16,932	3,377	138	27	8	63
	1914	18,892	( <sup>2</sup> )	( <sup>2</sup> )	14,160	3,390	1,277	45	8	.....
Printing and publishing, newspapers and periodicals.	1919	10,120	1,299	117	7,004	1,179	341	98	81	1
	1914	9,021	( <sup>2</sup> )	( <sup>2</sup> )	7,280	427	870	243	192	.....
Roofing materials.	1919	2,722	49	.....	1,406	3	37	928	299	.....
	1914	862	( <sup>2</sup> )	( <sup>2</sup> )	10	3	88	451	310	.....
Slaughtering and meat packing.	1919	54,179	1,222	76	49,017	3,504	245	22	93	.....
	1914	31,315	( <sup>2</sup> )	( <sup>2</sup> )	1,007	442	1,096	2,700	20,027	43
Smelting and refining, zinc.	1919	4,224	.....	.....	1,254	.....	.....	2,970	.....	.....
	1914	3,573	( <sup>2</sup> )	( <sup>2</sup> )	70	.....	.....	1,054	1,890	559
Soap.	1919	2,270	134	31	877	231	101	757	79	.....
	1914	2,144	( <sup>2</sup> )	( <sup>2</sup> )	5	194	24	1,300	621	.....
Stamped and enameled ware, not elsewhere specified.	1919	2,450	.....	438	994	827	.....	191	.....	.....
	1914	1,572	( <sup>2</sup> )	( <sup>2</sup> )	160	224	82	1,039	67	.....
Steam fittings and steam and hot-water heating apparatus.	1919	9,928	32	5	9,414	103	281	29	4	.....
	1914	2,579	( <sup>2</sup> )	( <sup>2</sup> )	32	200	222	1,695	430	.....
Stoves and hot-air furnaces.	1919	4,880	735	.....	2,492	89	1,093	413	54	.....
	1914	3,323	( <sup>2</sup> )	( <sup>2</sup> )	632	80	963	240	1,309	.....
Structural ironwork, not made in steel works or rolling mills.	1919	3,790	179	18	220	1,500	841	985	47	.....
	1914	4,938	( <sup>2</sup> )	( <sup>2</sup> )	375	697	1,751	1,852	258	.....
Tinware, not elsewhere specified.	1919	5,927	34	80	.....	4,954	419	422	18	.....
	1914	3,383	( <sup>2</sup> )	( <sup>2</sup> )	63	119	721	2,053	427	.....
Tobacco, cigars and cigarettes.	1919	3,363	1,051	503	1,353	324	107	24	1	.....
	1914	6,457	( <sup>2</sup> )	( <sup>2</sup> )	4,366	587	380	1,094	36	4
Tools, not elsewhere specified.	1919	2,098	431	14	392	1,177	197	767	50	.....
	1914	1,115	( <sup>2</sup> )	( <sup>2</sup> )	40	431	410	204	30	.....
Wire.	1919	2,775	.....	.....	296	.....	15	216	1,888	860
	1914	2,763	( <sup>2</sup> )	( <sup>2</sup> )	655	.....	.....	1,038	816	254
All other industries.	1919	141,845	19,159	6,047	38,446	37,428	9,009	20,247	8,399	3,050
	1914	108,060	( <sup>2</sup> )	( <sup>2</sup> )	15,295	20,788	24,321	22,318	19,566	5,772
Total for cities.	1919	555,930	93,030	25,815	197,604	134,153	31,788	47,228	11,672	14,640
	1914	408,976	( <sup>2</sup> )	( <sup>2</sup> )	69,693	81,497	97,862	82,802	60,481	16,641
ALTON.	1919	3,236	1,774	.....	289	293	641	193	42	4
	1914	2,662	( <sup>2</sup> )	( <sup>2</sup> )	135	141	184	1,521	595	86
AURORA.	1919	6,608	172	21	1,674	3,674	219	768	70	10
	1914	4,777	( <sup>2</sup> )	( <sup>2</sup> )	697	1,090	1,817	395	756	22
BELLEVILLE.	1919	3,160	183	319	1,255	591	775	28	9	.....
	1914	2,450	( <sup>2</sup> )	( <sup>2</sup> )	511	207	1,300	399	33	.....
BERWYN.	1919	25	10	.....	3	1	6	.....	5	.....
BLOOMINGTON.	1919	2,818	30	.....	2,287	138	246	47	61	9
	1914	2,384	( <sup>2</sup> )	( <sup>2</sup> )	835	81	292	180	113	1,433
BLUE ISLAND.	1919	1,180	8	177	346	409	10	121	93	10
CAIRO.	1919	1,792	13	85	110	39	246	827	888	84
	1914	1,522	( <sup>2</sup> )	( <sup>2</sup> )	73	20	107	748	467	107
CANTON.	1919	1,296	89	31	83	989	84	.....	16	4
	1914	920	( <sup>2</sup> )	( <sup>2</sup> )	139	87	17	658	16	3

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.



## MANUFACTURES—ILLINOIS.

15

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—							
			41 and under.	Between 44 and 48.	49.	Between 48 and 54.	54.	Between 54 and 61.	60.	Over 60.
CENTRALIA.....	1919	1,063	12	589	62	329	10	6	4	
	1914	237	( <sup>2</sup> )	( <sup>2</sup> )	56	25	116	7	33	
CHAMPAIGN.....	1919	1,063		320	295	334	16	42	50	
	1914	382	( <sup>2</sup> )	( <sup>2</sup> )	88	51	57	80	68	
CHICAGO.....	1919	403,942	81,265	21,655	144,866	102,549	16,522	23,305	4,284	9,496
	1914	313,710	( <sup>2</sup> )	( <sup>2</sup> )	54,344	67,035	80,985	60,110	43,683	7,503
CHICAGO HEIGHTS.....	1919	5,328	123	433	1,304	821	1,155	1,087	250	65
	1914	4,288	( <sup>2</sup> )	( <sup>2</sup> )	382	1,129	709	953	1,012	103
CICERO.....	1919	14,754	727	9	11,673	1,030	48	1,207		
DANVILLE.....	1919	3,343	75	161	2,066	64	243	523	145	66
	1914	2,100	( <sup>2</sup> )	( <sup>2</sup> )	246	120	1,352	160	101	130
DECATUR.....	1919	5,603	84	37	1,758	845	1,476	343	1,041	109
	1914	4,003	( <sup>2</sup> )	( <sup>2</sup> )	1,550	151	1,082	614	485	121
EAST ST. LOUIS.....	1919	8,785	311		4,170	660	676	2,046	751	141
	1914	6,863	( <sup>2</sup> )	( <sup>2</sup> )	307	307	1,550	412	2,097	1,190
ELGIN.....	1919	6,846	4,012	59	1,826	504	382	46	13	4
	1914	5,629	( <sup>2</sup> )	( <sup>2</sup> )	578	3,559	827	335	220	10
EVANSTON.....	1919	1,405	219		385	36	50	699	4	12
	1914	924	( <sup>2</sup> )	( <sup>2</sup> )	100	34	111	647	18	8
FOREST PARK.....	1919	192	67	29	18	61	10		7	
FREEPORT.....	1919	3,177	76		469	1,107	415	933	61	26
	1914	2,506	( <sup>2</sup> )	( <sup>2</sup> )	668	50	424	804	551	9
GALESBURG.....	1919	2,222	103	110	1,185	156	256	164	79	109
	1914	1,362	( <sup>2</sup> )	( <sup>2</sup> )	208	38	725	253	108	30
GRANITE CITY.....	1919	5,493	10	31	4,008	269	110	999		27
	1914	6,060	( <sup>2</sup> )	( <sup>2</sup> )	1,462	2,019	15	1,027	560	7
HERRIN.....	1919	52			29		3	14	3	3
JACKSONVILLE.....	1919	1,091	5	30	749	10	153	3	100	38
	1914	932	( <sup>2</sup> )	( <sup>2</sup> )	340	24	63	412	60	33
JOLIET.....	1919	11,259	586	7	3,691	684	443	731	1,608	3,509
	1914	4,990	( <sup>2</sup> )	( <sup>2</sup> )	653	349	118	554	704	2,621
KANKAKEE.....	1919	1,959	50	68	810	145	255	519	99	3
	1914	1,430	( <sup>2</sup> )	( <sup>2</sup> )	158	120	179	765	184	24
KEWANEE.....	1919	3,900	12	406	3,373	39	34	32	13	
	1914	2,837	( <sup>2</sup> )	( <sup>2</sup> )	24	761	407	1,590	47	8
LA SALLE.....	1919	1,792	1		107	4	66	1,562	23	29
	1914	1,214	( <sup>2</sup> )	( <sup>2</sup> )	53	4	10		885	262
LINCOLN.....	1919	194		5	47	22	42		67	11
	1914	230	( <sup>2</sup> )	( <sup>2</sup> )	105	7	72	34	21	
MATTOON.....	1919	1,134		235	420	17	97	232	133	
	1914	735	( <sup>2</sup> )	( <sup>2</sup> )	37		551	11	93	43
MAYWOOD.....	1919	2,217	533		33	1,615	6	27	3	
MOLINE.....	1919	5,444	635	38	66	3,514	353	670	135	33
	1914	5,053	( <sup>2</sup> )	( <sup>2</sup> )	1,482	237	621	2,032	678	3
MURPHYSBORO.....	1919	1,139			489	402	163	14	67	4
OAK PARK.....	1919	383	110		137	68	2	52	6	2
	1914	268	( <sup>2</sup> )	( <sup>2</sup> )	56	104	35	65	8	
OTTAWA.....	1919	729	69		147	15	73	89	336	
PERKIN.....	1919	934			554		57	131	130	62
	1914	634	( <sup>2</sup> )	( <sup>2</sup> )	78	1	88	2	454	11
PEORIA.....	1919	7,977	576	440	2,319	950	2,436	739	343	174
	1914	6,285	( <sup>2</sup> )	( <sup>2</sup> )	1,647	340	842	1,191	1,775	484
QUINCY.....	1919	4,443	127	7	765	385	1,020	1,062	351	126
	1914	3,067	( <sup>2</sup> )	( <sup>2</sup> )	604	160	1,004	167	894	229
ROCK ISLAND.....	1919	3,208	125	224	410	1,511	248	641	19	30
	1914	1,837	( <sup>2</sup> )	( <sup>2</sup> )	391	39	559	797	34	17
ROCKFORD.....	1919	14,992	452	9	978	6,718	337	5,762	616	120
	1914	10,472	( <sup>2</sup> )	( <sup>2</sup> )	879	947	986	4,503	2,963	104
SPRINGFIELD.....	1919	5,365	240	76	843	2,857	860	237	160	102
	1914	4,157	( <sup>2</sup> )	( <sup>2</sup> )	954	1,322	267	933	538	133
STREATOR.....	1919	1,301	3	71	957	158	94		10	8
	1914	1,763	( <sup>2</sup> )	( <sup>2</sup> )	252	978	325	100	75	33
URBANA.....	1919	509	38	3	255	9	41	99	26	38
WAUKEGAN.....	1919	2,538	21	124	113	734	177	1,190	67	112
	1914	2,276	( <sup>2</sup> )	( <sup>2</sup> )	35	33	132	197	256	1,023

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.



## MANUFACTURES—ILLINOIS.

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.	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.....	18,503	653,114	2,845	8,277	18,770	3,574	40,614	1,808	50,187	921	66,033	718	110,471	236	81,846	144	98,326	70	177,867
Agricultural implements.....	68	22,548	5	13	39	7	66	4	141	11	708	12	1,806	5	1,780	7	5,910	4	11,948
Automobile bodies and parts.....	204	5,298	10	72	178	59	692	31	1,017	16	1,070	8	1,248	2	622	2	1,093	.....	.....
Automobiles.....	25	3,507	1	1	5	4	59	4	164	7	506	3	367	.....	.....	.....	.....	.....	.....
Automobile repairing.....	785	3,120	51	611	1,287	107	998	11	297	2	122	3	416	.....	.....	.....	.....	.....	.....
Bookbinding and blank-book making.....	113	2,395	10	35	82	45	479	14	446	4	266	3	457	2	665	.....	.....	.....	.....
Boots and shoes.....	51	7,684	1	8	21	8	96	4	155	7	537	10	1,666	10	3,335	3	1,874	.....	.....
Boxes, paper and other, not elsewhere specified.....	87	5,923	.....	8	25	23	302	30	1,039	12	880	7	1,094	7	2,583	.....	.....	.....	.....
Boxes, wooden packing, except cigar boxes.....	63	4,524	2	16	42	13	127	11	365	8	599	8	1,200	3	1,021	2	1,170	.....	.....
Brass, bronze, and copper products.....	90	3,174	4	13	38	37	461	21	670	5	371	9	1,322	1	312	.....	.....	.....	.....
Bread and other bakery products.....	2,345	12,418	361	1,693	3,821	241	2,180	25	750	7	485	13	1,928	2	910	2	1,153	1	1,191
Brick and tile, terra-cotta, and fire-clay products.....	144	5,627	3	40	107	27	265	35	1,154	26	1,810	11	1,634	2	657	.....	.....	.....	.....
Carriages and wagons, including repairs.....	99	2,303	21	54	105	11	112	4	152	2	165	4	459	2	621	1	689	.....	.....
Cars and general shop construction and repairs by electric-railroad companies.....	49	3,151	.....	18	52	9	114	13	382	3	251	5	790	.....	.....	.....	.....	1	1,562
Cars and general shop construction and repairs by steam-railroad companies.....	133	40,219	.....	5	17	17	233	19	657	23	1,756	30	4,960	19	7,376	10	6,688	10	18,532
Cars, steam-railroad, not including operations of railroad companies.....	19	13,775	.....	.....	.....	2	26	2	74	3	206	4	821	1	413	1	571	6	11,664
Chemicals.....	33	3,004	.....	8	19	8	97	7	196	6	386	2	234	1	477	.....	.....	1	1,505
Clothing, men's.....	502	32,806	12	88	234	166	2,153	133	4,390	56	4,024	25	3,754	18	4,063	6	3,905	3	10,373
Clothing, women's.....	398	10,278	11	85	251	158	1,868	90	2,827	34	2,355	20	2,977	.....	.....	.....	.....	.....	.....
Confectionery and ice cream.....	462	8,779	76	230	472	81	900	42	1,379	17	1,271	12	2,009	1	351	2	1,310	1	1,087
Copper, tin, and sheet-iron work.....	391	2,232	59	254	521	58	651	13	493	6	401	1	166	.....	.....	.....	.....	.....	.....
Corsets.....	22	2,273	.....	3	8	4	47	5	167	2	134	5	756	2	618	1	548	.....	.....
Electrical machinery, apparatus, and supplies.....	161	27,290	4	33	96	46	568	23	888	21	1,544	18	2,802	7	2,367	4	2,731	5	16,294
Engines, steam, gas, and water.....	25	8,645	.....	3	9	4	47	4	154	4	233	4	617	.....	.....	2	1,524	4	6,061
Flour-mill and gristmill products.....	322	2,740	101	123	283	64	724	22	652	7	483	5	598	.....	.....	.....	.....	.....	.....
Food preparations, not elsewhere specified.....	134	4,061	12	48	123	36	432	18	597	13	895	4	559	2	848	1	607	.....	.....
Foundry and machine-shop products.....	870	45,879	45	241	628	228	2,764	152	4,955	98	7,232	72	11,720	16	5,444	16	10,834	2	2,263
Furniture.....	286	12,294	18	72	179	62	756	58	1,955	40	2,865	31	4,567	3	862	2	1,110	.....	.....
Gas, illuminating and heating.....	70	4,430	2	25	75	18	215	16	515	2	155	6	720	.....	.....	.....	.....	1	2,750
Glass.....	14	4,065	.....	2	5	2	22	1	31	1	66	3	480	3	1,102	1	599	1	1,760
Hardware.....	84	4,914	3	24	64	20	275	15	541	8	547	9	1,376	3	870	2	1,235	.....	.....
Instruments, professional and scientific.....	33	3,621	4	7	22	8	71	6	186	4	310	3	498	.....	.....	.....	.....	1	2,534
Iron and steel, blast furnaces.....	5	2,129	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	876	2	1,253	.....	.....
Iron and steel, steel works and rolling mills.....	32	20,177	.....	.....	.....	1	14	1	36	3	272	9	1,641	8	3,085	5	3,439	5	11,690
Iron and steel forgings, not made in steel works or rolling mills.....	24	2,328	.....	2	4	5	66	7	269	3	232	4	596	2	644	1	517	.....	.....
Knit goods.....	58	5,095	7	12	25	9	100	6	234	7	516	10	1,378	6	2,245	1	597	.....	.....
Leather, tanned, curried, and finished.....	29	4,434	1	2	5	3	37	5	134	6	421	6	945	3	1,117	3	1,775	.....	.....
Liquors, malt.....	61	2,706	.....	5	19	16	196	25	824	9	699	5	773	1	285	.....	.....	.....	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.....	269	5,147	21	96	203	81	945	40	1,250	23	1,555	7	864	1	330	.....	.....	.....	.....
Machine tools.....	28	3,273	1	6	25	5	57	4	134	5	381	3	431	2	768	2	1,477	.....	.....
Millinery and lace goods, not elsewhere specified.....	121	4,830	1	30	93	48	616	23	755	7	441	7	995	4	1,391	1	539	.....	.....
Musical instruments, pianos.....	33	6,991	1	.....	.....	2	20	5	182	4	335	13	1,896	4	1,408	3	1,917	1	1,233
Paints.....	50	2,640	1	18	42	8	83	6	223	11	788	5	652	.....	.....	.....	.....	.....	.....
Petroleum, refining.....	13	2,448	.....	1	5	4	56	.....	.....	3	237	2	302	1	280	2	1,608	.....	.....
Pickles, preserves, and sauces.....	68	2,255	7	29	70	12	158	7	232	6	442	5	682	2	671	.....	.....	.....	.....
Plumbers' supplies, not elsewhere specified.....	18	2,060	1	2	6	3	27	6	190	2	158	2	244	.....	.....	2	1,471	.....	.....
Printing and publishing, book and job.....	1,240	21,639	333	498	1,167	226	2,557	109	3,552	31	2,258	30	4,727	8	2,485	3	2,166	2	2,728
Printing and publishing, newspapers and periodicals.....	1,204	10,120	453	554	1,242	121	1,285	46	1,480	15	1,063	8	1,357	4	1,311	3	2,382	.....	.....
Roofing materials.....	25	2,722	.....	5	12	3	40	5	194	4	302	4	734	.....	.....	.....	.....	.....	.....
Slaughtering and meat packing.....	72	54,179	1	7	18	12	171	11	384	15	1,043	6	1,081	9	3,255	2	1,676	9	46,551
Smelting and refining, zinc.....	7	4,224	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	195	3	1,317	3	2,712	.....	.....
Soap.....	29	2,270	.....	12	28	7	71	4	111	2	162	2	300	.....	.....	.....	.....	.....	.....
Stamped and enameled ware, not elsewhere specified.....	22	2,450	.....	2	5	6	69	6	218	3	216	3	576	1	438	1	928	.....	.....
Steam fittings and steam and hot-water heating apparatus.....	28	9,928	.....	5	17	10	135	8	262	1	58	2	412	.....	.....	.....	.....	2	9,014
Stoves and hot-air furnaces.....	56	4,880	1	12	42	7	87	9	279	12	896	11	1,648	2	543	2	1,385	.....	.....
Structural ironwork, not made in steel works or rolling mills.....	115	3,790	5	26	76	44	573	21	764	9	613	10	1,764	.....	.....	.....	.....	.....	.....
Tinware, not elsewhere specified.....	28	5,027	1	4	14	3	39	6	174	3	248	3	396	2	542	4	2,370	2	2,144
Tobacco, cigars and cigarettes.....	1,182	3,363	530	520	996	109	1,056	13	345	5	293	5	673	.....	.....	.....	.....	.....	.....
Tools, not elsewhere specified.....	114	2,098	9	48	125	31	347	13	450	7	522	4	541	1	364	1	640	.....	.....
Wire.....	10	2,775	.....	.....	.....	1	15	.....	.....	2	166	2	292	.....	.....	.....	.....	.....	.....
All other industries.....	5,570	142,143	649	2,548	5,728	1,224	13,904	589	19,083	268	119,023	199	30,276	55	18,727	30	20,449	8	14,863



## MANUFACTURES—ILLINOIS.

17

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 earn- ers.		1 to 5 wage earn- ers, inclusive.		6 to 20 wage earn- ers, inclusive.		21 to 50 wage earn- ers, inclusive.		51 to 100 wage earn- ers, inclusive.		101 to 250 wage earn- ers, inclusive.		251 to 500 wage earn- ers, inclusive.		501 to 1,000 wage earn- ers, inclusive.		Over 1,000 wage earn- ers.	
			Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earn- ers.
Total for cities.....	14,066	555,930	1,998	5,062	13,570	3,087	35,309	1,580	52,157	750	54,350	509	92,500	187	64,003	127	85,008	58	157,314	
ALTON.....	60	3,230	5	28	79	11	115	6	141	4	337	5	801						1	1,700
AURORA.....	133	6,608	17	47	100	35	353	15	494	5	336	8	1,305	3	844	2	1,387	1		1,750
BELLEVIEW.....	141	3,160	23	66	113	24	233	10	319	8	656	7	1,004	3	805					
BERWYN.....	15	25	5	9	15	1	10													
BLOOMINGTON.....	83	2,818	12	43	93	15	167	7	227	4	285	1	212					1		1,834
BLUE ISLAND.....	34	1,180	6	13	32	4	43	3	85	5	335	2	297	1	388					
CAIRO.....	55	1,792	1	18	46	22	243	7	252	4	290	2	408			1	553			
CANTON.....	33	1,206	2	16	40	7	68	5	147	2	137					1	904			
CENTRALIA.....	30	1,003	5	16	45	6	55					2	313			1	590			
CHAMPAIGN.....	80	1,063	10	41	88	21	233	3	101	4	346			1	295					
CHICAGO.....	10,537	403,942	1,576	4,131	10,065	2,362	27,201	1,226	40,001	540	38,990	434	66,366	131	45,562	87	57,543	41	118,214	
CHICAGO HEIGHTS.....	103	5,328	11	36	59	16	173	24	1,131			12	2,107	3	1,261	1	537			
CICERO.....	92	1,754	11	39	58	19	239	9	268	5	370	6	915			2	1,372	1	11,322	
DANVILLE.....	112	3,343	21	41	81	29	327	8	267	8	613	3	483	1	365			1	1,207	
DECATUR.....	103	5,093	10	36	87	20	245	15	556	12	891	7	1,054			2	1,495	1	1,305	
EAST ST. LOUIS.....	157	8,785	20	59	138	21	267	21	775	15	1,139	13	1,921	5	1,636	2	1,314	1	1,595	
ELGIN.....	80	6,846	7	27	63	20	235	9	306	9	597	5	749	1	296	1	829	1	3,771	
EVANSTON.....	101	1,405	20	55	107	16	160	5	143	3	212	1	113			1	670			
FOREST PARK.....	28	192	6	12	25	8	77	1	29	1	61					2	1,356			
FREEPORT.....	76	3,177	6	36	73	16	201	7	206	6	390	1	237	2	714	2	1,356			
GALESBURG.....	77	2,222	5	37	77	17	188	6	186	9	666	2	288			1	817			
GRANITE CITY.....	37	5,493	8	12	31	5	58	4	115	1	72	1	174	1	258	4	3,142	1	1,643	
HERRIN.....	12	52	2	6	15	4	37													
JACKSONVILLE.....	59	1,091	10	28	61	13	153	1	31	3	198	4	645							
JOLIET.....	166	11,250	24	68	165	27	331	15	517	10	727	11	1,908	8	2,872	1	513	2	4,166	
KANKAKEE.....	54	1,959	2	29	76	11	108	5	192	2	148	3	423	1	437	1	575			
KEWANEE.....	37	3,009	4	21	47	3	40	5	132	1	53			1	406	1	733	1	2,498	
LA SALLE.....	38	1,792	6	20	41	5	45	3	81	1	60	1	241	1	367	1	948			
LINCOLN.....	33	1,194	4	17	35	11	120	1	39											
MATTOON.....	65	1,134	2	43	69	13	140	3	90			4	826							
MAYWOOD.....	27	2,217	2	18	30	2	27	2	51							2	1,035	1	1,074	
MOLINE.....	61	5,444	3	17	40	15	163	6	178	7	500	8	1,103	2	798	2	1,545	1	1,927	
MURPHYSBORO.....	28	1,130	3	13	32	5	54	4	120			1	110	2	823					
OAK PARK.....	44	383	14	18	33	0	60	4	113	1	58	1	110							
OTTAWA.....	62	720	3	37	79	12	118	6	188	3	210	1	134							
PERIN.....	37	934	3	19	40	8	83	4	175	1	78	1	103	1	455					
PEORIA.....	253	7,977	33	95	263	64	782	28	953	16	1,197	13	2,220	3	823			1	1,730	
QUINCY.....	183	4,443	19	81	206	39	445	22	741	11	767	7	1,003	4	1,281					
ROCK ISLAND.....	83	3,208	9	33	82	21	231	11	385	4	335	2	433	1	330	2	1,412			
ROCKFORD.....	312	14,992	20	119	317	55	653	40	1,387	31	2,283	20	2,905	8	2,721	7	4,726			
SPRINGFIELD.....	181	5,395	23	78	227	44	500	18	603	10	697	4	570	2	681	1	873	1	1,214	
STRAZOR.....	69	1,301	5	40	82	15	145	4	112	3	217	1	145			1	599			
URBANA.....	43	509	9	20	34	10	119	2	69	1	90	1	197							
WAUKEGAN.....	52	2,538	5	24	48	9	115	8	242			3	513	1	485			1	1,135	

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.....	18,593	18,388	18,026	653,114	506,943	465,764	\$5,425,244,004	\$2,247,322,819	\$1,919,270,504	\$1,936,974,248	\$907,139,412	\$758,349,904
Less than \$5,000.....	3,725	6,161	0,181	1,968	6,484	7,000	9,757,063	15,231,218	15,040,868	5,979,405	9,884,858	9,864,314
\$5,000 to \$20,000.....	5,360	5,899	5,823	12,639	24,881	27,327	58,637,492	60,715,479	59,704,517	32,751,008	36,481,976	36,175,677
\$20,000 to \$100,000.....	5,104	3,833	3,773	49,521	62,952	65,907	233,014,448	170,457,380	170,400,943	124,132,828	96,275,057	91,858,229
\$100,000 to \$500,000.....	2,916	1,804	1,070	122,037	180,653	185,743	678,032,680	398,781,306	595,294,105	340,751,214	310,251,830	280,112,984
\$500,000 to \$1,000,000.....	689	355		76,662			488,266,611	253,820,149		231,198,879		
\$1,000,000 and over.....	790	336	273	389,086	222,073	179,787	3,957,535,494	1,342,308,287	1,078,746,101	1,109,160,914	451,242,661	340,338,700
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.....	20.0	33.5	34.3	0.3	1.3	1.5	0.2	0.7	0.8	0.3	1.1	1.3
\$5,000 to \$20,000.....	28.8	32.1	32.3	1.9	4.9	5.9	1.1	2.7	3.1	1.7	4.0	4.8
\$20,000 to \$100,000.....	27.5	20.8	20.9	7.6	12.4	14.2	4.3	7.9	8.9	6.4	10.6	12.1
\$100,000 to \$500,000.....	15.7	9.8		18.8			12.5	17.7		17.0		
\$500,000 to \$1,000,000.....	3.7	1.9	11.0	11.7	37.5	39.9	9.0	11.3	31.0	12.1	34.2	36.9
\$1,000,000 and over.....	4.3	1.8	1.5	59.7	43.9	38.6	72.9	50.7	50.2	61.9	50.1	44.9



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.....	68	73	100.0	100.0	22,548	19,556	100.0	100.0	\$128,284,716	\$65,337,663	100.0	100.0	\$63,124,896	\$32,460,102	100.0	100.0
Less than \$5,000.....	9	12	13.2	16.4	9	14	(1)	0.1	25,108	32,479	(1)	(1)	12,956	16,745	(1)	0.1
\$5,000 to \$20,000.....	6	12	8.8	16.4	23	52	0.1	0.3	71,444	130,069	0.1	0.2	26,390	57,733	(1)	0.2
\$20,000 to \$100,000.....	11	12	16.2	16.4	118	216	0.5	1.1	521,573	600,011	0.4	0.9	233,810	303,100	0.4	0.9
\$100,000 to \$500,000.....	14	14	20.6	19.2	1,014	3,028	4.5	15.5	4,084,408	3,423,583	3.2	5.2	2,036,268	2,472,330	3.2	13.8
\$500,000 to \$1,000,000.....	5	8	7.4	11.0	20,531		2.4		3,367,668	5,418,377	2.6	8.3	1,840,307		2.9	
\$1,000,000 and over.....	23	15	33.8	20.6	20,853	16,246	92.5	83.1	120,214,515	55,733,144	93.7	85.3	58,975,165	27,610,194	93.4	85.1
AUTOMOBILES.....	25	25	100.0	100.0	3,507	1,309	100.0	100.0	77,018,464	7,633,420	100.0	100.0	15,986,692	2,624,810	100.0	100.0
Less than \$20,000.....		3		12.0		17		1.3		12,990		0.2		31,420		0.1
\$20,000 to \$100,000.....		10		40.0		110		8.4		416,257		5.5		205,017		7.8
\$100,000 to \$500,000.....	11	7	44.0	28.0	3,449	1,182	10.0	90.3	2,333,879	1,712,609	3.0	22.4	1,960,269	2,421,213	6.0	92.3
\$500,000 to \$1,000,000.....	5	5	20.0	20.0	335		9.6		4,113,686	5,491,564	5.3	71.9	1,615,807		10.1	
\$1,000,000 and over.....	9		36.0		2,823		80.5		70,570,889		91.6		13,410,616		83.9	
BOOTS AND SHOES.....	51	47	100.0	100.0	7,684	6,071	100.0	100.0	39,402,353	16,891,626	100.0	100.0	14,184,064	5,909,081	100.0	100.0
Less than \$5,000.....	3	9	5.9	19.1	4	8	0.1	0.1	4,664	15,540	(1)	0.1	2,781	9,836	(1)	0.2
\$5,000 to \$20,000.....	7	9	13.7	19.1	25	71	0.3	1.2	82,682	99,391	0.2	0.6	41,971	56,926	0.3	1.0
\$20,000 to \$100,000.....	8	6	15.7	12.8	199	101	2.6	1.7	501,567	224,899	1.3	1.3	246,179	119,294	1.7	2.0
\$100,000 to \$500,000.....	12	15	23.5	31.9	866	2,795	11.3	46.0	3,405,642	4,536,313	8.6	26.9	1,134,313	2,557,599	8.0	43.3
\$500,000 to \$1,000,000.....	7	4	13.7	8.5	1,342		17.5		5,460,359	3,202,982	13.9	19.0	2,029,455		14.3	
\$1,000,000 and over.....	14	4	27.5	8.5	5,248	3,096	68.3	51.0	29,947,509	8,812,531	76.0	52.2	10,729,475	3,165,516	75.6	53.6
BREAD AND OTHER BAKERY PRODUCTS.....	2,345	2,278	100.0	100.0	12,418	10,404	100.0	100.0	102,664,190	45,250,060	100.0	100.0	41,067,027	21,611,189	100.0	100.0
Less than \$5,000.....	238	757	10.1	33.2	69	546	0.6	5.2	721,834	2,283,939	0.7	5.0	292,238	1,119,308	0.7	5.2
\$5,000 to \$20,000.....	1,108	1,238	47.2	54.3	1,467	2,966	11.8	28.5	13,179,583	12,331,251	12.8	27.3	4,760,718	5,766,541	11.6	26.7
\$20,000 to \$100,000.....	911	243	38.8	10.7	3,998	2,106	32.2	20.2	32,025,808	8,744,059	32.1	19.3	11,180,876	3,681,081	27.2	17.0
\$100,000 to \$500,000.....	65	28	2.8	1.2	1,368	2,367	11.0	22.8	12,763,497	5,384,111	12.4	11.9	4,399,016	2,472,502	10.7	21.8
\$500,000 to \$1,000,000.....	11	7	0.5	0.3	1,152		9.3		8,039,514	5,108,314	7.8	11.3	3,889,720		9.4	
\$1,000,000 and over.....	12	5	0.5	0.2	4,364	2,419	35.1	23.3	35,033,954	11,398,386	34.1	25.2	10,583,459	6,331,667	40.4	29.3
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.....	133	94	100.0	100.0	40,219	28,682	100.0	100.0	103,219,253	41,496,130	100.0	100.0	63,418,426	23,177,066	100.0	100.0
Less than \$20,000.....	7	7	5.3	7.4	32	79	0.1	0.3	76,325	103,651	0.1	0.2	57,563	66,997	0.1	0.3
\$20,000 to \$100,000.....	30	25	22.6	26.6	721	1,005	1.8	3.5	1,622,406	1,311,183	1.6	3.2	1,181,640	814,336	1.9	3.5
\$100,000 to \$500,000.....	48	37	36.1	39.4	5,090	14,120	12.7	49.2	12,480,974	9,418,313	12.0	22.7	8,409,941	11,894,087	13.3	51.3
\$500,000 to \$1,000,000.....	21	16	15.8	17.0	6,027		15.0		15,569,160	11,398,224	15.1	27.5	9,739,948		15.4	
\$1,000,000 and over.....	27	9	20.3	9.6	28,349	13,478	70.5	47.0	73,520,388	19,264,759	71.2	46.4	44,029,334	10,401,646	69.4	44.9
CARS, STEAM-RAILROAD, NOT INCLUDING OPERATIONS OF RAILROAD COMPANIES.....	19	23	100.0	100.0	13,775	18,000	100.0	100.0	125,217,722	61,315,638	100.0	100.0	42,789,988	20,880,871	100.0	100.0
\$20,000 to \$100,000.....	3	7	15.8	34.8	61	7264	0.4	1.5	154,257	7,410,666	0.1	0.7	88,056	7,213,780	0.2	1.0
\$100,000 to \$500,000.....	25	26	26.3	26.1	2,591	1,139	4.3	6.3	21,934,874	2,132,211	1.5	3.5	2,039,775	2,994,744	2.4	4.8
\$1,000,000 and over.....	11	9	57.9	39.1	13,123	16,597	95.3	92.2	123,128,591	58,772,761	98.3	95.9	41,692,157	19,678,347	97.4	91.2
CLOTHING, MEN'S.....	502	578	100.0	100.0	32,896	34,152	100.0	100.0	197,616,795	87,512,126	100.0	100.0	106,368,505	47,008,902	100.0	100.0
Less than \$5,000.....	23	129	4.6	20.8	31	537	0.1	1.6	66,669	317,419	(1)	0.4	57,546	279,857	0.1	0.6
\$5,000 to \$20,000.....	85	208	16.9	36.0	644	3,281	2.0	9.6	1,063,280	2,267,480	0.5	2.5	899,406	1,966,610	0.8	4.2
\$20,000 to \$100,000.....	203	135	40.4	23.4	4,397	4,813	13.4	14.1	9,469,327	5,844,854	4.8	6.7	7,732,479	4,000,557	7.3	8.5
\$100,000 to \$500,000.....	114	80	22.7	13.8	4,905	7,473	14.9	21.9	28,088,079	18,793,121	14.2	21.5	14,180,712	15,823,230	13.3	33.7
\$500,000 to \$1,000,000.....	40	16	8.0	2.8	2,989		9.1		29,046,960	12,102,554	14.7	13.8	11,510,505		13.6	
\$1,000,000 and over.....	37	19	7.4	3.3	10,930	18,048	60.6	52.8	128,879,534	48,246,692	65.7	55.1	68,987,767	24,938,648	64.9	53.1
CLOTHING, WOMEN'S.....	398	241	100.0	100.0	10,278	8,113	100.0	100.0	68,044,268	20,750,550	100.0	100.0	26,908,660	9,531,354	100.0	100.0
Less than \$5,000.....	19	23	4.8	9.5	37	64	0.4	0.8	54,340	58,880	0.1	0.3	31,572	41,164	0.1	0.4
\$5,000 to \$20,000.....	52	50	13.1	20.7	101	403	1.9	5.0	625,255	559,729	0.9	2.7	348,492	341,712	1.3	3.6
\$20,000 to \$100,000.....	150	104	37.7	43.2	1,716	2,236	16.7	27.6	7,948,068	5,030,579	11.7	24.2	3,736,823	2,432,112	13.9	26.0
\$100,000 to \$500,000.....	150	59	37.7	24.5	5,457	5,410	53.4	66.7	34,052,552	11,049,190	50.0	53.2	12,966,020	6,666,366	48.2	69.9
\$500,000 to \$1,000,000.....	20	5	5.0	2.1	1,944		18.9		14,002,392	4,055,163	20.6	19.5	5,261,016		19.6	
\$1,000,000 and over.....	7		1.8		903		8.8		11,361,651		16.7		4,563,837		17.0	
COFFEE AND SPICE, ROASTING AND GRINDING.....	32	34	100.0	100.0	1,205	1,193	100.0	100.0	38,188,646	22,044,588	100.0	100.0	8,496,212	4,950,998	100.0	100.0
\$20,000 to \$100,000.....	7	11	21.9	32.4	738	867	3.2	5.6	7,450,370	8,624,520	1.2	2.8	7,104,497	8,170,151	1.2	3.4
\$100,000 to \$500,000.....	9	12	28.1	35.3	73	343	0.1	28.8	2,111,595	3,740,383	5.5	17.0	513,496	2,253,458	6.0	25.3
\$500,000 to \$1,000,000.....	5	4	15.6	11.8	159		15.7		3,523,132	2,230,930	9.2	10.2	910,945		10.7	
\$1,000,000 and over.....	11	7	34.4	20.6	905	753	75.1	65.6	32,103,549	15,439,755	84.1	70.0	6,967,274	3,527,389	82.0	71.2
CONDENSED MILK.....	38	34	100.0	100.0	1,111	1,178	100.0	100.0	30,437,845	12,757,704	100.0	100.0	5,761,026	2,265,378	100.0	100.0
\$20,000 to \$100,000.....	7	9	18.4	26.5	716	43	1.4	3.6	7,278,087	456,037	0.9	3.7				



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	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.	161	142	100.0	100.0	27,290	16,483	100.0	100.0	\$119,528,022	\$45,667,456	100.0	100.0	\$67,901,723	\$26,288,292	100.0	100.0
Less than \$5,000.	8	23	5.0	16.2	5	25	(1)	0.2	23,438	67,946	(1)	0.1	14,335	43,428	(1)	0.2
\$5,000 to \$20,000.	20	38	12.4	23.8	69	214	0.3	1.3	198,202	474,427	0.2	1.0	120,170	286,373	0.2	1.1
\$20,000 to \$100,000.	46	40	28.0	28.2	522	823	1.9	5.0	2,107,316	2,267,757	1.8	5.0	1,211,674	1,283,395	1.8	4.9
\$100,000 to \$500,000.	55	31	34.2	21.8	2,926	3,072	10.7	18.6	13,221,196	6,284,806	11.1	13.8	7,011,907	2,598,873	10.3	21.3
\$500,000 to \$1,000,000.	14	6	8.7	4.2	2,271	8.3	8.3	74.9	9,675,189	6,228,287	8.1	9.2	5,470,151	8.1	8.1	.....
\$1,000,000 and over.	19	4	11.8	2.8	21,497	12,349	78.8	74.9	94,242,681	32,346,233	78.8	70.8	54,058,426	19,070,223	79.6	72.6
ENGINES, STEAM, GAS, AND WATER.	25	30	100.0	100.0	8,645	1,860	100.0	100.0	45,741,267	3,948,730	100.0	100.0	22,097,112	2,106,792	100.0	100.0
Less than \$5,000.	3	8	12.0	26.7	9	19	0.1	1.0	24,631	31,070	0.1	0.8	10,990	21,437	(1)	1.0
\$5,000 to \$20,000.	3	9	12.0	30.0	31	145	0.4	7.8	175,014	55,847	0.4	8.9	92,702	222,468	0.4	10.6
\$20,000 to \$100,000.	2	4	4.0	30.0	2	1,679	8.3	90.3	3,630,246	3,510,181	7.9	88.9	1,986,780	1,836,251	9.0	87.2
\$100,000 to \$500,000.	8	3	32.0	.....	7,890	.....	91.3	.....	41,910,476	.....	91.6	.....	20,006,640	.....	90.5	.....
\$1,000,000 and over.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FLOUR-MILL AND GRIST-MILL PRODUCTS.	322	406	100.0	100.0	2,740	2,398	100.0	100.0	116,562,015	49,493,224	100.0	100.0	13,397,463	6,652,317	100.0	100.0
Less than \$5,000.	48	113	14.9	27.8	3	49	0.1	2.0	134,680	278,802	0.1	0.6	35,216	61,145	0.3	0.9
\$5,000 to \$20,000.	82	104	25.5	25.6	43	132	1.6	5.5	913,549	1,117,454	0.8	2.3	190,587	232,458	1.4	3.5
\$20,000 to \$100,000.	80	109	24.8	26.8	213	396	7.8	16.5	4,106,981	4,660,766	3.5	9.4	609,465	793,058	5.2	11.9
\$100,000 to \$500,000.	64	61	19.9	15.0	525	1,123	19.2	46.8	14,056,208	14,280,713	12.6	28.9	1,908,020	2,671,777	14.2	38.7
\$500,000 to \$1,000,000.	20	8	6.2	2.0	419	.....	15.3	.....	14,003,025	5,390,727	12.0	10.9	2,011,608	.....	15.0	.....
\$1,000,000 and over.	28	11	8.7	2.7	1,537	698	56.1	29.1	82,718,472	23,749,762	71.0	48.0	8,552,507	2,993,879	63.8	45.0
FOOD PREPARATIONS, NOT ELSEWHERE SPECIFIED.	134	115	100.0	100.0	4,061	1,790	100.0	100.0	94,240,367	17,620,136	100.0	100.0	13,809,022	4,868,943	100.0	100.0
Less than \$5,000.	19	20	14.2	17.4	6	19	0.1	1.1	59,058	50,152	0.1	0.3	28,840	21,164	0.2	0.4
\$5,000 to \$20,000.	24	28	17.9	24.3	62	85	1.5	4.7	267,324	297,402	0.3	1.7	123,855	141,886	0.9	2.9
\$20,000 to \$100,000.	24	31	17.9	27.0	164	278	4.0	15.5	1,342,057	1,462,675	1.4	8.3	490,562	545,410	3.6	11.2
\$100,000 to \$500,000.	34	23	25.4	20.0	633	1,310	15.6	73.2	9,428,073	5,089,857	10.0	28.9	2,463,894	2,626,000	17.8	74.5
\$500,000 to \$1,000,000.	11	10	8.2	8.7	443	.....	10.9	.....	7,308,079	6,959,434	7.8	39.5	1,850,425	.....	13.4	.....
\$1,000,000 and over.	22	3	16.4	2.6	2,753	98	67.8	5.5	75,838,716	3,760,616	80.5	21.3	8,851,486	835,477	64.1	11.0
FOUNDRY AND MACHINE-SHOP PRODUCTS.	920	821	100.0	100.0	49,450	37,130	100.0	100.0	252,786,130	95,368,347	100.0	100.0	148,450,505	55,841,823	100.0	100.0
Less than \$5,000.	102	141	11.1	17.2	61	184	0.1	0.5	272,866	397,721	0.1	0.4	189,106	288,611	0.1	0.6
\$5,000 to \$20,000.	156	204	17.0	24.8	541	1,027	1.1	2.8	1,816,877	2,206,695	0.7	2.4	1,182,751	1,501,420	0.8	2.7
\$20,000 to \$100,000.	287	308	31.2	37.5	3,624	5,856	7.3	15.8	14,895,284	14,371,010	5.8	15.1	9,009,031	8,516,243	6.1	15.3
\$100,000 to \$500,000.	251	124	27.3	15.1	12,457	17,501	25.2	47.1	58,253,172	20,912,171	23.0	28.2	33,340,909	26,247,095	22.5	47.0
\$500,000 to \$1,000,000.	61	28	6.6	3.4	7,801	.....	15.8	.....	41,066,848	19,309,945	16.6	20.2	24,934,847	.....	16.8	.....
\$1,000,000 and over.	63	16	6.8	1.9	24,966	12,562	50.5	33.8	135,881,053	32,080,005	53.8	33.6	79,799,861	19,288,448	53.7	34.5
FURNITURE.	286	274	100.0	100.0	12,294	13,350	100.0	100.0	60,770,771	31,889,569	100.0	100.0	32,580,432	16,772,613	100.0	100.0
Less than \$5,000.	27	34	9.4	12.4	13	51	0.1	0.4	84,689	92,345	0.1	0.3	53,350	61,018	0.2	0.4
\$5,000 to \$20,000.	49	61	17.1	22.3	124	345	1.0	2.6	535,519	673,884	0.9	2.1	322,892	400,853	1.0	2.4
\$20,000 to \$100,000.	76	92	26.6	33.6	920	2,099	7.5	15.7	3,921,544	4,783,042	6.5	15.0	2,195,602	2,647,541	6.7	15.8
\$100,000 to \$500,000.	105	78	36.7	28.5	5,658	8,997	40.0	37.4	20,491,096	17,706,087	43.6	55.5	14,233,346	11,319,069	43.7	67.5
\$500,000 to \$1,000,000.	20	6	7.0	2.2	2,757	.....	22.4	.....	14,046,947	4,087,879	23.1	12.8	8,225,157	.....	25.2	.....
\$1,000,000 and over.	9	3	3.1	1.1	2,822	1,868	23.0	13.9	15,692,026	4,546,332	25.8	14.3	7,550,085	2,343,532	23.2	14.0
GAS, ILLUMINATING AND HEATING.	70	75	100.0	100.0	4,430	3,890	100.0	100.0	30,930,423	28,170,560	100.0	100.0	19,038,261	20,135,071	100.0	100.0
Less than \$5,000.	7	13	10.0	17.3	6	11	0.1	0.3	16,324	30,080	(1)	0.1	5,391	15,468	(1)	0.1
\$5,000 to \$20,000.	13	17	18.6	22.7	43	72	1.0	1.9	192,656	206,141	0.5	0.7	89,765	132,961	0.5	0.7
\$20,000 to \$100,000.	26	23	37.1	30.7	207	233	6.7	6.0	1,328,336	1,109,291	3.6	3.9	631,569	692,199	3.3	3.4
\$100,000 to \$500,000.	15	17	21.4	22.7	494	3,574	11.2	91.9	3,198,087	4,109,382	8.7	14.6	1,067,871	1,929,443	8.8	95.9
\$500,000 and over.	9	5	12.9	6.7	3,590	.....	81.0	.....	32,195,020	22,715,066	87.2	80.6	16,646,065	.....	87.4	.....
HARDWARE.	84	80	100.0	100.0	4,914	4,035	100.0	100.0	22,442,043	10,407,290	100.0	100.0	13,767,372	6,017,361	100.0	100.0
Less than \$5,000.	8	14	9.5	17.5	5	12	0.1	0.3	18,351	28,068	0.1	0.3	9,249	19,772	0.1	0.3
\$5,000 to \$20,000.	16	24	19.0	30.0	50	130	1.0	3.2	211,822	266,196	0.9	2.0	120,950	151,329	0.9	2.5
\$20,000 to \$100,000.	25	17	29.8	21.2	369	420	7.5	10.4	1,477,836	907,484	6.6	8.7	838,838	512,522	6.1	8.5
\$100,000 to \$500,000.	23	48	27.4	22.5	1,220	3,473	24.8	80.1	5,102,023	4,700,928	22.7	45.2	2,997,663	4,533,738	21.8	88.6
\$500,000 to \$1,000,000.	7	7	8.3	8.8	1,227	.....	25.0	.....	4,556,819	4,503,914	20.3	43.3	2,893,430	.....	21.0	.....
\$1,000,000 and over.	5	.....	6.0	.....	2,043	.....	41.6	.....	11,075,792	.....	49.4	.....	6,907,242	.....	50.2	.....
IRON AND STEEL, STEEL WORKS AND ROLLING MILLS.	32	25	100.0	100.0	20,177	15,408	100.0	100.0	173,344,650	64,905,121	100.0	100.0	73,025,172	25,057,057	100.0	100.0
\$100,000 to \$500,000.	76	9	18.8	36.0	7,528	2,127	2.6	13.8	2,247,834	3,343,350	1.3	5.1	1,196,088	2,418,574	1.6	9.7
\$500,000 to \$1,000,000.	6	4	15.6	16.0	756	.....	3.7	.....	4,148,407	2,570,100	2.4	4.0	1,924,269	.....	2.6	.....
\$1,000,000 and over.	21	12	65.6	48.0	18,893	13,281	93.6	86.2	166,948,409	59,081,671	96.3	90.9	69,904,825	22,638,483	95.7	90.3
KNIT GOODS.	58	46	100.													



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.				
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.		
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	
LIQUORS, MALT.....	61	89	100.0	100.0	2,796	5,749	100.0	100.0	\$27,322,655	\$39,435,995	100.0	100.0	\$20,183,788	\$29,020,593	100.0	100.0	
\$5,000 to \$20,000.....	3	16	4.9	6.7	8	13	0.3	0.1	29,388	143,490	0.1	0.1	19,576	122,656	0.1	0.1	
\$20,000 to \$100,000.....	12	21	19.7	23.6	138	146	4.9	2.5	706,208	1,208,700	2.6	3.1	436,453	795,878	2.2	2.7	
\$100,000 to \$500,000.....	26	36	42.6	40.4	841	1,568	30.1	27.3	6,491,467	9,859,806	23.8	25.0	4,610,436	15,376,699	22.9	53.0	
\$500,000 to \$1,000,000.....	12	17	19.7	19.1	595	.....	21.3	.....	8,375,805	11,271,778	30.7	28.6	6,777,229	.....	33.6	.....	
\$1,000,000 and over.....	8	9	13.1	10.1	1,214	4,032	43.4	70.1	11,719,787	17,052,221	42.9	43.2	8,334,094	12,834,360	41.3	44.2	
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS.....	269	333	100.0	100.0	5,147	7,734	100.0	100.0	34,588,576	26,662,534	100.0	100.0	13,909,099	11,122,958	100.0	100.0	
Less than \$5,000.....	39	52	14.5	15.6	21	51	0.4	0.7	102,951	129,996	0.3	0.5	58,970	76,838	0.4	0.7	
\$5,000 to \$20,000.....	59	92	21.9	27.6	122	413	2.4	5.3	622,814	1,052,463	1.8	3.9	318,967	592,525	2.3	5.3	
\$20,000 to \$100,000.....	98	123	36.4	36.9	1,005	2,060	20.7	26.6	5,183,438	6,080,610	15.0	22.8	2,463,355	2,920,494	17.7	26.3	
\$100,000 to \$500,000.....	62	59	23.0	17.7	2,623	5,210	51.0	67.4	13,313,501	11,892,590	38.5	44.5	6,569,880	7,527,101	47.2	67.7	
\$500,000 to \$1,000,000.....	4	4	1.5	2.1	424	.....	8.2	.....	2,441,823	4,753,875	7.1	28.3	1,191,054	.....	8.6	.....	
\$1,000,000 and over.....	7	.....	2.6	.....	892	.....	17.3	.....	12,924,049	.....	37.4	.....	3,306,273	.....	23.8	.....	
MUSICAL INSTRUMENTS, PIANOS.....	33	43	100.0	100.0	6,991	6,682	100.0	100.0	30,848,147	16,785,649	100.0	100.0	17,893,486	9,727,497	100.0	100.0	
Less than \$20,000.....	3	4	9.1	9.3	.....	12	0.2	.....	.....	27,194	.....	0.2	.....	21,061	.....	0.2	.....
\$20,000 to \$100,000.....	10	13	30.3	30.2	620	284	0.3	4.3	5,87,149	872,093	0.3	5.2	442,236	471,270	0.2	4.8	
\$100,000 to \$500,000.....	10	15	30.3	34.9	763	3,913	10.9	58.6	3,204,078	4,200,338	10.4	25.0	1,797,644	2,542,022	10.0	55.7	
\$500,000 to \$1,000,000.....	10	8	30.3	18.6	1,359	.....	19.4	.....	6,820,859	5,836,992	22.1	34.8	3,421,640	.....	19.1	.....	
\$1,000,000 and over.....	10	3	30.3	7.0	4,849	2,473	69.4	37.0	20,736,061	5,849,032	67.2	34.8	12,631,966	3,815,044	70.6	39.2	
PAINTS.....	50	40	100.0	100.0	2,640	1,670	100.0	100.0	43,061,694	19,042,769	100.0	100.0	13,436,181	6,595,874	100.0	100.0	
Less than \$20,000.....	9	8	18.0	20.0	12	15	0.5	0.9	79,685	58,994	0.2	0.3	39,908	34,093	0.3	0.5	
\$20,000 to \$100,000.....	8	11	16.0	27.5	20	47	0.8	2.8	425,129	497,442	1.0	2.6	154,242	200,022	1.1	3.0	
\$100,000 to \$500,000.....	13	9	26.0	22.5	266	756	10.1	45.3	3,404,028	2,561,523	7.9	13.5	1,429,441	2,572,114	10.6	39.0	
\$500,000 to \$1,000,000.....	8	7	16.0	17.5	436	.....	16.5	.....	6,145,136	5,039,130	14.3	29.6	2,016,707	.....	15.0	.....	
\$1,000,000 and over.....	12	5	24.0	12.5	1,906	852	72.2	51.0	33,007,716	10,288,680	76.7	51.0	9,795,883	3,789,645	72.9	37.5	
PRINTING AND PUBLISHING, BOOK AND JOB.....	1,240	1,173	100.0	100.0	21,639	18,892	100.0	100.0	110,886,458	54,625,954	100.0	100.0	68,395,709	35,270,600	100.0	100.0	
Less than \$5,000.....	329	425	26.5	36.2	112	364	0.5	1.9	881,217	1,034,538	0.8	1.9	598,508	761,855	0.9	2.2	
\$5,000 to \$20,000.....	392	401	31.6	34.2	902	1,686	4.2	8.9	4,193,048	4,116,328	3.8	7.5	2,767,721	2,986,537	4.0	8.5	
\$20,000 to \$100,000.....	317	248	25.6	21.1	2,996	4,192	13.8	22.2	14,136,535	11,737,018	12.7	21.5	9,195,417	8,191,057	13.4	23.2	
\$100,000 to \$500,000.....	155	85	12.5	7.2	6,407	8,993	29.6	47.6	30,789,482	18,051,127	27.8	33.0	21,212,752	17,588,235	31.0	49.9	
\$500,000 to \$1,000,000.....	30	10	2.4	0.9	3,716	.....	17.2	.....	20,314,379	6,570,353	18.3	12.0	13,955,816	.....	20.4	.....	
\$1,000,000 and over.....	17	4	1.4	0.3	7,506	3,657	34.7	19.4	40,571,797	13,116,390	36.6	24.0	20,665,495	5,742,916	30.2	16.3	
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	1,204	1,330	100.0	100.0	10,120	9,021	100.0	100.0	88,945,960	47,026,681	100.0	100.0	58,961,038	36,685,766	100.0	100.0	
Less than \$5,000.....	395	624	32.8	46.9	318	815	3.1	9.0	1,144,300	1,649,501	1.3	3.5	808,734	1,362,631	1.5	3.7	
\$5,000 to \$20,000.....	449	411	37.3	30.9	914	1,293	9.0	14.3	4,393,074	4,092,446	4.9	8.7	3,512,085	3,427,096	6.0	9.3	
\$20,000 to \$100,000.....	232	228	19.3	17.1	1,524	1,679	15.1	18.6	10,259,906	9,762,662	11.5	20.7	8,296,284	8,350,632	14.1	22.8	
\$100,000 to \$500,000.....	104	53	8.6	4.0	2,334	2,536	23.1	28.1	21,457,694	9,692,974	24.1	20.6	15,988,187	10,783,626	27.1	29.4	
\$500,000 to \$1,000,000.....	12	6	1.0	0.5	865	.....	8.5	.....	8,808,771	4,394,612	9.9	9.3	6,603,012	.....	11.2	.....	
\$1,000,000 and over.....	12	8	1.0	0.6	4,165	2,698	41.2	29.9	42,582,215	17,444,486	48.2	37.1	23,692,736	12,761,781	40.2	34.8	
SLAUGHTERING AND MEAT PACKING.....	72	70	100.0	100.0	54,179	31,315	100.0	100.0	1,284,103,016	485,362,180	100.0	100.0	141,152,524	76,467,110	100.0	100.0	
\$5,000 to \$20,000.....	.....	3	.....	4.3	.....	10	.....	.....	.....	38,140	.....	.....	.....	17,440	.....	.....	.....
\$20,000 to \$100,000.....	5	9	6.9	12.9	.....	38	.....	.....	.....	430,224	.....	.....	.....	92,191	.....	.....	.....
\$100,000 to \$500,000.....	17	18	23.6	25.7	299	824	0.6	2.6	5,041,237	5,010,632	0.4	1.0	1,247,872	2,173,708	0.9	2.3	
\$500,000 to \$1,000,000.....	7	9	9.7	12.9	301	.....	0.6	.....	5,280,067	6,865,822	0.4	1.4	1,136,096	.....	0.8	.....	
\$1,000,000 and over.....	43	31	59.7	44.3	53,573	30,448	98.9	97.2	1,273,558,388	473,008,362	99.2	97.5	138,724,172	74,619,771	98.3	97.6	
STEAM FITTINGS AND STEAM AND HOT-WATER HEATING APPARATUS.....	28	34	100.0	100.0	9,928	2,579	100.0	100.0	43,940,561	5,470,380	100.0	100.0	20,480,323	3,114,098	100.0	100.0	
\$5,000 to \$20,000.....	.....	6	.....	17.6	.....	21	.....	0.8	.....	91,791	.....	1.7	.....	57,745	.....	1.9	.....
\$20,000 to \$100,000.....	13	17	48.4	50.0	1,182	283	1.8	11.0	7,809,759	1,002,055	1.8	18.3	7,417,499	627,476	2.0	20.1	
\$100,000 to \$500,000.....	10	11	35.7	32.4	280	2,275	2.8	88.2	2,089,961	4,376,584	4.8	80.0	1,152,108	2,428,877	5.6	78.0	
\$1,000,000 and over.....	5	.....	17.9	.....	9,466	.....	95.3	.....	41,040,841	.....	93.4	.....	18,910,716	.....	92.8	.....	
STRUCTURAL IRONWORK, NOT MADE IN STEEL WORKS OR ROLLING MILLS.....	115	115	100.0	100.0	3,790	4,933	100.0	100.0	27,586,074	16,023,040	100.0	100.0	11,015,760	7,477,857	100.0	100.0	
Less than \$5,000.....	8	17	7.0	14.8	3	32	0.1	0.6	26,147	45,813	0.1	0.3	14,914	25,841	0.1	0.3	
\$5,000 to \$20,000.....	9	26	7.8	22.6	20	130	0.5	2.6	104,299	331,692	0.4	2.1	56,587	174,322	0.5	2.3	
\$20,000 to \$100,000.....	45	38	39.1	33.0	453	609	12.0	12.3	2,444,789	1,902,763	8.9	11.9	1,218,910	950,884	11.1	12.7	
\$100,000 to \$500,000.....	37	23	32.2	20.0	1,302	3,350	34.4	67.9	8,068,763	4,964,276	29.2	31.0	3,575,038	4,889,022	32.5	65.4	
\$500,000 to \$1,000,000.....	10	8	8.7	7.0	888	.....	23.4	.....	7,494,823	5,619,536	27.2	35.1	2,575,258	.....	23.4	.....	
\$1,000,000 and over.....	6	3	5.2	2.6	1,124	812	29.7	16.5	9,447,253	3,158,960	34.2	19.7	3,575,053	1,437,788	32.5	19.2	

1 Includes the group "Less than \$5,000."

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

3 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

4 Includes the group "\$1,000,000 and over."

5 Includes the groups "Less than \$5,000" and "\$5,000 to \$20,000."

6 Less than one-tenth of 1 per cent.

7 Includes the group "\$5,000 to \$20,000."



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.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ALTON.....	60	3,236	100.0	\$31,036,983	100.0	\$11,261,989	100.0	DANVILLE.....	112	3,343	100.0	\$15,005,953	100.0	\$6,296,000	100.0
Less than \$5,000.....	8	4	0.1	22,711	0.1	16,233	0.1	Less than \$5,000.....	26	9	0.3	61,587	0.4	35,572	0.6
\$5,000 to \$20,000.....	19	67	2.1	240,894	0.8	131,671	1.2	\$5,000 to \$20,000.....	32	85	2.5	312,922	2.1	179,700	2.9
\$20,000 to \$100,000.....	21	212	6.6	894,692	2.9	499,959	4.4	\$20,000 to \$100,000.....	28	288	8.6	1,369,961	9.1	513,011	8.1
\$100,000 to \$500,000.....	3	123	3.8	655,476	2.1	296,997	2.6	\$100,000 to \$500,000.....	21	1,208	36.1	4,626,140	30.8	2,352,835	37.4
\$500,000 to \$1,000,000.....	4	504	17.4	2,789,548	9.0	1,277,668	11.3	\$500,000 and over.....	5	1,753	52.4	8,635,343	57.5	3,214,882	51.1
\$1,000,000 and over.....	5	2,266	70.0	26,433,662	85.2	9,039,461	80.3								
AURORA.....	133	6,608	100.0	30,038,961	100.0	17,355,417	100.0	DECATUR.....	103	5,693	100.0	38,683,689	100.0	13,695,903	100.0
Less than \$5,000.....	19	9	0.1	47,864	0.2	30,175	0.2	Less than \$5,000.....	16	8	0.1	38,068	0.1	21,235	0.2
\$5,000 to \$20,000.....	39	115	1.7	431,514	1.4	253,637	1.5	\$5,000 to \$20,000.....	20	52	0.9	229,112	0.6	110,651	0.8
\$20,000 to \$100,000.....	37	308	6.0	1,648,132	5.5	749,737	4.3	\$20,000 to \$100,000.....	26	254	4.5	1,104,021	2.9	578,374	4.1
\$100,000 to \$500,000.....	25	998	15.1	6,324,920	21.1	2,987,544	17.2	\$100,000 to \$500,000.....	27	1,273	22.4	7,103,061	18.4	3,573,666	25.5
\$500,000 to \$1,000,000.....	5	743	11.2	3,718,061	12.4	2,237,527	12.9	\$500,000 to \$1,000,000.....	5	684	12.0	3,484,079	9.0	1,610,018	11.5
\$1,000,000 and over.....	8	4,345	65.8	17,868,470	59.5	11,096,797	63.9	\$1,000,000 and over.....	9	3,422	60.1	26,725,318	69.1	8,008,959	57.9
BELLELEVILLE.....	141	3,160	100.0	14,017,292	100.0	6,337,593	100.0	EAST ST. LOUIS.....	157	8,785	100.0	77,292,812	100.0	23,389,934	100.0
Less than \$5,000.....	39	18	0.6	98,641	0.7	50,207	0.9	Less than \$5,000.....	27	9	0.1	70,967	0.1	44,073	0.2
\$5,000 to \$20,000.....	44	121	3.9	465,190	3.3	225,856	3.6	\$5,000 to \$20,000.....	36	89	1.0	387,072	0.5	199,052	0.9
\$20,000 to \$100,000.....	30	264	8.4	1,194,240	8.5	581,794	9.2	\$20,000 to \$100,000.....	35	398	4.5	1,530,490	2.0	750,601	3.2
\$100,000 to \$500,000.....	21	1,489	47.1	6,106,991	43.6	3,055,591	48.2	\$100,000 to \$500,000.....	29	1,511	17.2	8,000,000	10.4	3,447,539	14.7
\$500,000 and over.....	7	1,205	40.0	6,152,230	43.9	2,418,145	38.2	\$500,000 to \$1,000,000.....	8	1,165	13.3	5,728,928	7.4	2,976,508	12.7
								\$1,000,000 and over.....	22	5,613	63.9	61,506,355	79.6	15,972,161	68.3
BERWYN.....	15	25	100.0	155,157	100.0	70,860	100.0	ELGIN.....	80	6,846	100.0	25,648,891	100.0	14,830,920	100.0
Less than \$5,000.....	6	.....	.....	12,864	8.3	6,978	9.1	Less than \$5,000.....	13	9	0.1	29,709	0.1	15,562	0.1
\$5,000 and over.....	9	25	100.0	142,293	91.7	69,882	90.9	\$5,000 to \$20,000.....	19	52	0.8	193,642	0.8	105,723	0.7
BLOOMINGTON.....	53	2,818	100.0	11,519,580	100.0	5,052,705	100.0	\$20,000 to \$100,000.....	18	229	3.3	880,808	3.4	413,441	2.8
Less than \$5,000.....	20	17	0.6	64,373	0.6	33,013	0.6	\$100,000 to \$500,000.....	20	931	13.6	4,430,065	17.3	1,906,417	12.9
\$5,000 to \$20,000.....	29	79	2.8	259,019	2.2	137,540	2.3	\$500,000 to \$1,000,000.....	5	626	9.1	3,272,241	12.8	1,244,590	8.4
\$20,000 to \$100,000.....	19	187	6.6	863,321	7.5	430,846	7.2	\$1,000,000 and over.....	5	4,900	73.0	16,842,426	65.7	11,145,187	75.1
\$100,000 and over.....	15	2,535	90.0	10,332,867	89.7	5,351,306	89.9								
BLUE ISLAND.....	34	1,180	100.0	7,498,870	100.0	4,650,089	100.0	EVANSTON.....	101	1,405	100.0	9,791,025	100.0	4,095,360	100.0
Less than \$5,000.....	6	2	0.2	15,868	0.2	9,103	0.2	Less than \$5,000.....	20	6	0.4	62,851	0.6	33,554	0.8
\$5,000 to \$20,000.....	7	10	0.8	75,520	1.0	31,056	0.7	\$5,000 to \$20,000.....	44	92	6.5	472,048	4.8	272,827	6.7
\$20,000 to \$100,000.....	9	120	10.2	336,820	4.5	188,421	4.1	\$20,000 to \$100,000.....	27	190	13.5	1,125,346	11.5	633,278	15.5
\$100,000 and over.....	12	1,048	88.8	7,070,662	94.3	4,420,609	95.1	\$100,000 and over.....	10	1,117	79.5	8,130,780	83.0	3,155,701	77.1
CAIRO.....	55	1,792	100.0	10,526,159	100.0	3,215,770	100.0	FOREST PARK.....	28	102	100.0	1,016,236	100.0	552,690	100.0
Less than \$20,000.....	18	42	2.3	151,940	1.4	80,672	2.5	Less than \$5,000.....	8	2	1.0	20,801	2.0	13,911	2.5
\$20,000 to \$100,000.....	22	249	13.9	1,001,499	9.5	471,001	14.7	\$5,000 to \$20,000.....	11	32	16.7	150,948	14.8	81,329	14.7
\$100,000 to \$500,000.....	9	357	19.9	2,253,324	21.4	778,687	24.2	\$20,000 to \$100,000.....	6	53	27.6	280,179	27.6	165,486	29.9
\$500,000 and over.....	8	1,144	63.8	7,119,396	67.6	1,885,110	58.6	\$100,000 to \$500,000.....	3	105	54.7	564,308	55.5	291,964	52.8
CANTON.....	33	1,296	100.0	4,558,447	100.0	2,047,047	100.0	FREEPORT.....	76	3,177	100.0	18,405,204	100.0	7,542,856	100.0
Less than \$5,000.....	7	8	0.6	17,188	0.4	11,043	0.5	Less than \$5,000.....	15	10	0.3	40,373	0.2	29,120	0.4
\$5,000 to \$20,000.....	12	79	6.1	167,928	3.7	72,838	3.6	\$5,000 to \$20,000.....	21	51	1.6	238,404	1.3	120,964	1.6
\$20,000 to \$100,000.....	11	168	13.0	522,033	11.5	261,519	12.8	\$20,000 to \$100,000.....	21	389	12.2	1,140,163	6.2	592,835	7.9
\$100,000 and over.....	3	1,041	80.3	3,851,298	84.5	1,701,647	83.1	\$100,000 to \$500,000.....	11	354	11.1	2,132,761	11.6	951,734	12.6
								\$500,000 to \$1,000,000.....	4	336	10.6	2,983,555	16.2	968,075	12.8
								\$1,000,000 and over.....	4	2,037	64.1	11,869,958	64.5	4,880,108	64.7
CENTRALIA.....	30	1,003	100.0	3,010,556	100.0	1,682,726	100.0	GALESBURG.....	77	2,222	100.0	10,352,242	100.0	4,360,501	100.0
Less than \$5,000.....	7	2	0.2	12,385	0.4	6,060	0.4	Less than \$5,000.....	12	3	0.1	21,642	0.2	14,307	0.3
\$5,000 to \$20,000.....	9	23	2.3	109,240	3.6	63,026	3.7	\$5,000 to \$20,000.....	25	62	2.8	256,340	2.5	131,409	3.0
\$20,000 to \$100,000.....	10	72	7.2	402,784	13.4	213,924	12.7	\$20,000 to \$100,000.....	21	198	8.9	1,061,955	10.3	460,079	10.6
\$100,000 and over.....	4	906	90.3	2,489,146	82.7	1,399,716	83.2	\$100,000 to \$500,000.....	13	672	30.2	2,538,069	27.4	1,295,861	29.7
CHAMPAIGN.....	80	1,063	100.0	5,187,010	100.0	2,454,068	100.0	\$500,000 to \$1,000,000.....	3	362	15.3	1,813,419	17.5	784,573	18.0
Less than \$5,000.....	14	7	0.7	41,272	0.8	23,759	1.0	\$1,000,000 and over.....	3	925	41.0	4,367,217	42.1	1,074,272	38.4
\$5,000 to \$20,000.....	20	53	5.0	270,505	5.3	164,094	6.7								
\$20,000 to \$100,000.....	20	255	24.0	1,290,667	25.0	745,431	30.4	GRANITE CITY.....	37	5,463	100.0	43,689,044	100.0	17,270,473	100.0
\$100,000 to \$500,000.....	8	361	34.0	1,776,254	34.2	725,228	29.6	Less than \$5,000.....	9	2	(1)	22,169	0.1	9,154	0.1
\$500,000 to \$1,000,000.....	3	387	36.4	1,706,312	34.6	795,556	32.4	\$5,000 to \$20,000.....	7	17	0.3	77,727	0.2	34,751	0.2
CHICAGO.....	10,537	403,942	100.0	3,657,424,471	100.0	1,278,182,243	100.0	\$20,000 to \$100,000.....	12	163	3.0	533,207	1.2	330,702	1.9
Less than \$5,000.....	1,583	618	0.1	4,143,626	0.1	2,590,698	0.2	\$100,000 and over.....	9	5,311	96.7	42,405,881	98.5	16,904,866	97.8
\$5,000 to \$20,000.....	2,754	6,329	1.6	31,305,818	0.9	18,164,720	1.4	HERMINE.....	12	52	100.0				



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

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
KANKAKEE.....	54	1,959	100.0	\$7,287,117	100.0	\$3,443,452	100.0	PEKIN.....	37	931	100.0	\$25,663,968	100.0	\$9,101,284	100.0
Less than \$5,000.....	5	4	0.2	12,676	0.2	8,393	0.2	Less than \$5,000.....	8	4	0.4	13,203	0.1	3,037	(1)
\$5,000 to \$20,000.....	20	59	3.0	261,962	3.6	126,511	3.7	\$5,000 to \$20,000.....	13	38	4.1	167,322	0.7	85,400	0.9
\$20,000 to \$100,000.....	18	244	12.5	825,284	11.3	404,276	11.7	\$20,000 to \$100,000.....	9	114	12.2	410,213	1.6	175,977	1.9
\$100,000 to \$500,000.....	8	491	25.1	2,007,746	27.6	1,339,721	38.9	\$100,000 to \$500,000.....	7	778	83.3	25,073,230	97.7	8,836,870	97.1
\$500,000 and over.....	3	1,161	59.3	4,179,449	57.4	1,564,519	45.4	PEORIA.....	253	7,977	100.0	\$7,074,893	100.0	21,155,975	100.0
KEWANEE.....	37	3,909	100.0	16,278,508	100.0	8,939,321	100.0	Less than \$5,000.....	42	26	0.3	101,162	0.2	59,052	0.3
Less than \$5,000.....	7	7	0.2	18,165	0.1	12,949	0.1	\$5,000 to \$20,000.....	67	200	2.5	716,865	1.3	418,216	2.0
\$5,000 to \$20,000.....	14	27	0.7	144,971	0.9	83,362	0.9	\$20,000 to \$100,000.....	72	782	9.8	3,436,212	6.0	1,805,359	8.5
\$20,000 to \$100,000.....	7	55	1.4	372,994	2.3	183,275	2.1	\$100,000 to \$500,000.....	44	1,702	21.3	10,298,138	18.0	4,227,381	20.0
\$100,000 to \$500,000.....	6	184	4.7	1,206,353	7.4	505,886	6.3	\$500,000 to \$1,000,000.....	16	1,899	23.8	11,445,570	20.1	4,695,821	22.2
\$500,000 and over.....	3	3,636	93.0	14,536,025	89.3	8,093,849	90.5	\$1,000,000 and over.....	12	3,368	42.2	31,076,946	54.5	9,950,146	47.0
LA SALLE.....	38	1,792	100.0	9,533,706	100.0	4,262,278	100.0	QUINCY.....	183	4,443	100.0	23,498,813	100.0	11,061,171	100.0
Less than \$5,000.....	9	4	0.2	20,836	0.2	12,546	0.3	Less than \$5,000.....	32	22	0.5	81,469	0.3	51,855	0.5
\$5,000 to \$20,000.....	16	42	2.3	194,353	2.0	105,705	2.5	\$5,000 to \$20,000.....	50	161	3.6	539,166	2.5	321,770	2.9
\$20,000 to \$100,000.....	8	94	5.2	404,625	4.2	185,870	4.4	\$20,000 to \$100,000.....	55	606	13.6	2,535,289	10.8	1,311,856	11.9
\$100,000 and over.....	5	1,652	92.2	8,913,892	93.5	3,958,157	92.9	\$100,000 to \$500,000.....	35	1,677	37.7	8,138,142	34.6	4,142,529	37.5
LINCOLN.....	33	194	100.0	784,734	100.0	400,972	100.0	\$500,000 to \$1,000,000.....	5	498	11.2	3,022,072	12.9	1,000,799	9.6
Less than \$5,000.....	10	17	8.8	27,680	3.5	13,679	3.9	\$1,000,000 and over.....	6	1,479	33.3	9,132,685	38.9	4,172,362	37.7
\$5,000 to \$20,000.....	10	46	23.7	124,795	15.9	62,907	15.7	ROCK ISLAND.....	83	3,208	100.0	22,350,114	100.0	8,102,467	100.0
\$20,000 to \$100,000.....	13	131	67.5	632,259	80.6	322,380	80.4	Less than \$5,000.....	13	5	0.2	30,788	0.1	19,570	0.2
MATTOON.....	65	1,134	100.0	4,651,058	100.0	2,194,784	100.0	\$5,000 to \$20,000.....	23	60	1.9	249,973	1.1	140,857	1.7
Less than \$5,000.....	21	30	2.6	60,857	1.5	37,222	1.7	\$20,000 to \$100,000.....	22	255	7.9	1,035,364	4.6	622,928	7.7
\$5,000 to \$20,000.....	21	48	4.2	200,194	4.9	125,474	5.7	\$100,000 to \$500,000.....	19	615	19.2	3,627,013	16.2	1,849,019	22.8
\$20,000 to \$100,000.....	15	134	11.8	725,489	17.9	379,953	17.3	\$500,000 and over.....	6	2,273	70.9	17,406,956	77.9	5,470,093	67.5
\$100,000 to \$500,000.....	5	446	39.3	1,219,130	30.1	785,248	35.8	ROCKFORD.....	312	14,992	100.0	74,918,953	100.0	38,352,044	100.0
\$500,000 to \$1,000,000.....	3	476	42.0	1,845,388	45.6	866,887	39.5	Less than \$5,000.....	46	29	0.2	120,725	0.2	74,761	0.2
MAYWOOD.....	27	2,217	100.0	14,432,705	100.0	5,005,025	100.0	\$5,000 to \$20,000.....	71	185	1.2	818,777	1.1	471,780	1.2
Less than \$5,000.....	6	4	0.2	12,800	0.1	8,934	0.2	\$20,000 to \$100,000.....	82	922	6.1	4,110,207	5.5	2,041,980	5.3
\$5,000 to \$20,000.....	10	15	0.7	88,831	0.6	45,893	0.9	\$100,000 to \$500,000.....	82	4,162	27.8	20,345,722	27.2	10,490,125	27.4
\$20,000 to \$100,000.....	7	63	2.8	269,618	1.9	133,417	2.7	\$500,000 to \$1,000,000.....	13	1,792	12.0	9,400,376	12.6	4,641,360	12.1
\$100,000 and over.....	4	2,135	96.3	14,061,456	97.4	4,816,781	96.2	\$1,000,000 and over.....	18	7,902	52.7	40,108,147	53.5	20,632,068	53.8
MOLINE.....	61	5,444	100.0	44,871,021	100.0	22,183,217	100.0	SPRINGFIELD.....	181	5,365	100.0	22,723,365	100.0	10,339,413	100.0
Less than \$5,000.....	7	7	0.1	18,108	(1)	11,852	0.1	Less than \$5,000.....	27	15	0.3	70,623	0.3	41,188	0.4
\$5,000 to \$20,000.....	13	39	0.7	148,889	0.3	90,746	0.4	\$5,000 to \$20,000.....	60	195	3.6	646,880	2.8	388,577	3.8
\$20,000 to \$100,000.....	12	139	2.6	514,648	1.1	237,172	1.1	\$20,000 to \$100,000.....	61	666	12.4	2,999,314	13.2	1,471,567	14.2
\$100,000 to \$500,000.....	15	688	12.6	3,329,682	7.4	1,717,485	7.7	\$100,000 to \$500,000.....	27	1,567	29.2	7,013,477	30.9	3,331,210	32.2
\$500,000 to \$1,000,000.....	8	1,037	19.0	6,442,288	14.4	3,725,385	16.8	\$1,000,000 and over.....	6	2,922	54.5	11,993,071	52.8	5,106,871	49.4
\$1,000,000 and over.....	6	3,594	64.9	34,417,406	76.7	16,400,577	73.9	STREATOR.....	69	1,301	100.0	6,662,302	100.0	3,708,915	100.0
MURPHYSBORO.....	28	1,139	100.0	6,208,317	100.0	2,327,625	100.0	Less than \$5,000.....	14	13	1.0	39,298	0.6	25,862	0.7
Less than \$5,000.....	4	1	0.1	11,630	0.2	5,541	0.2	\$5,000 to \$20,000.....	27	80	6.1	293,509	4.4	186,935	5.0
\$5,000 to \$20,000.....	7	15	1.3	75,535	1.2	37,282	1.6	\$20,000 to \$100,000.....	20	233	17.9	914,277	13.7	503,323	13.6
\$20,000 to \$100,000.....	10	79	6.9	438,090	7.1	182,679	7.9	\$100,000 and over.....	8	975	74.9	5,415,133	81.3	2,992,705	80.7
\$100,000 to \$500,000.....	3	184	16.2	634,883	10.2	489,878	21.0	URBANA.....	43	509	100.0	1,450,522	100.0	1,010,292	100.0
\$500,000 and over.....	4	860	75.5	5,047,279	81.3	1,612,045	69.3	Less than \$5,000.....	15	6	1.2	44,108	3.0	29,414	2.9
OAK PARK.....	44	383	100.0	2,280,640	100.0	1,305,630	100.0	\$5,000 to \$20,000.....	13	43	8.4	143,183	9.9	109,475	10.8
Less than \$5,000.....	11	1	0.3	28,261	1.2	14,636	1.1	\$20,000 to \$100,000.....	15	460	90.4	1,263,231	87.1	871,403	86.3
\$5,000 to \$20,000.....	17	27	7.0	165,557	7.3	97,001	7.4	WAUKEGAN.....	52	2,538	100.0	24,093,062	100.0	9,076,750	100.0
\$20,000 to \$100,000.....	11	110	28.7	601,766	26.4	358,790	27.5	Less than \$5,000.....	10	6	0.2	27,037	0.1	15,141	0.2
\$100,000 and over.....	5	245	64.0	1,489,056	65.1	835,113	64.0	\$5,000 to \$20,000.....	16	32	1.3	167,466	0.7	96,804	1.1
OTTAWA.....	62	729	100.0	3,223,647	100.0	1,648,919	100.0	\$20,000 to \$100,000.....	13	165	6.5	656,310	2.7	330,016	3.6
Less than \$5,000.....	17	24	3.3	49,887	1.5	33,962	2.1	\$100,000 to \$500,000.....	7	372	14.7	1,630,909	6.8	716,292	7.9
\$5,000 to \$20,000.....	21	63	8.6	235,368	7.3	132,316	8.0	\$500,000 to \$1,000,000.....	8	310	12.2	1,994,554	8.3	884,198	9.7
\$20,000 to \$100,000.....	16	203	27.8	799,670	24.8	386,150	23.4	\$1,000,000 and over.....	3	1,653	65.1	19,616,786	81.4	7,033,408	77.5
\$100,000 and over.....	8	439	60.2	2,138,822	66.3	1,096,491	66.5								

<sup>1</sup> Less than one-tenth of 1 per cent.<sup>2</sup> Includes the group "\$500,000 to \$1,000,000."



## MANUFACTURES—ILLINOIS.

23

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
All industries.....	1919	8,771	6,895	2,927	653,114	36,105	589,978	27,031	5.5	90.3	4.1	\$5,425,244,004	\$225,940,504	\$5,004,523,563	\$194,780,027	4.2	92.2	3.6				
	1914	9,404	5,993	2,991	506,943	40,278	437,099	29,506	7.9	86.2	5.8	2,247,322,819	127,740,861	2,021,734,391	97,847,567	5.7	90.0	4.4				
	1900	9,654	5,209	3,163	465,761	46,524	374,855	44,385	10.0	80.5	9.5	1,019,276,504	134,438,290	1,646,518,916	138,319,382	7.0	85.8	7.2				
Agricultural implements..	1919	3	55	10	22,548	4	22,469	75	(1)	99.6	0.3	128,284,716	43,430	127,911,845	329,441	(1)	99.7	0.3				
	1914	11	51	11	19,556	48	19,443	65	0.2	99.6	0.3	65,337,063	151,057	65,017,595	169,308	0.2	99.5	0.3				
Automobile bodies and parts.	1919	76	101	27	5,298	584	4,502	212	11.0	85.0	4.0	27,864,978	2,018,279	24,001,784	944,915	10.5	88.1	3.4				
	1914	14	35	17	1,236	65	987	184	5.3	79.9	14.9	3,384,742	154,813	2,874,870	355,059	4.6	84.9	10.5				
Boots and shoes.....	1919	9	37	5	7,684	70	7,363	251	0.9	95.8	3.3	39,402,383	360,004	37,111,042	1,921,347	0.9	94.2	4.9				
	1914	16	23	8	6,071	343	5,299	429	5.6	87.3	7.1	16,891,626	1,108,785	14,727,840	1,055,001	6.6	87.2	6.2				
Boxes, paper and other, not elsewhere specified.	1919	19	58	10	5,923	399	5,380	144	6.7	90.8	2.4	28,893,083	1,485,950	26,906,826	500,307	5.1	93.1	1.7				
	1914	22	51	7	4,586	395	4,084	107	8.6	89.1	2.3	9,740,786	724,092	8,837,936	178,158	7.4	90.7	1.8				
Brass, bronze, and copper products.	1919	19	59	12	3,174	166	2,737	271	5.2	86.2	8.5	25,106,507	1,160,854	22,975,289	970,304	4.6	91.5	3.9				
	1914	23	39	13	1,502	117	1,265	120	7.8	84.2	8.0	7,570,456	354,268	6,795,359	420,830	6.7	89.8	5.0				
Bread and other bakery products.	1919	1,034	110	301	12,418	4,729	6,366	1,323	38.1	51.3	10.7	102,664,190	41,431,435	50,237,835	10,994,920	40.4	48.0	10.7				
	1914	1,924	79	275	10,404	4,302	5,008	1,094	41.3	48.1	10.5	45,250,060	18,103,211	22,431,866	4,714,983	40.0	49.6	10.4				
Butter.....	1919	41	50	35	813	73	618	122	0.0	70.0	15.0	26,376,027	2,055,709	20,348,281	3,972,040	7.8	77.1	15.1				
	1914	53	88	45	492	85	305	102	17.3	62.0	20.7	7,570,539	1,386,875	5,200,656	1,583,008	16.8	63.8	19.4				
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	133	.....	40,219	.....	40,219	.....	100.0	.....	.....	103,219,253	.....	103,219,253	.....	.....	100.0	.....				
	1914	.....	94	.....	28,682	.....	28,682	.....	100.0	.....	.....	41,496,130	.....	41,496,130	.....	.....	100.0	.....				
Cars, steam-railroad, not including operations of railroad companies.	1919	.....	19	.....	13,775	.....	13,775	.....	100.0	.....	.....	125,217,722	.....	125,217,722	.....	.....	100.0	.....				
	1914	.....	23	.....	18,000	.....	18,000	.....	100.0	.....	.....	61,315,038	.....	61,315,038	.....	.....	100.0	.....				
Chemicals.....	1919	2	28	3	3,004	28	2,976	.....	0.9	99.1	.....	22,060,803	2,401,604	21,569,109	.....	2.1	97.9	.....				
	1914	3	23	.....	1,682	5	1,677	.....	0.3	99.7	.....	8,618,118	18,775	8,599,343	.....	0.2	99.8	.....				
Clothing, men's.....	1919	210	153	139	32,896	3,894	23,912	5,090	11.8	72.7	15.5	197,616,795	13,140,010	158,325,934	26,150,851	6.6	80.1	13.2				
	1914	322	113	143	34,152	6,428	21,072	6,652	18.8	61.7	19.5	87,512,126	8,391,801	63,628,424	15,491,001	9.6	72.7	17.7				
Clothing, women's.....	1919	151	112	135	10,278	2,554	4,999	2,725	24.8	48.6	26.5	68,044,268	16,205,717	27,464,725	24,373,826	23.8	40.4	35.8				
	1914	107	61	73	8,113	1,994	3,881	2,238	24.6	47.8	27.6	20,750,550	4,455,699	10,168,703	6,126,148	21.5	49.0	29.5				
Coffee and spice, roasting and grinding.	1919	3	26	3	1,205	34	915	256	2.8	75.9	21.2	38,188,646	157,720	28,983,701	9,047,225	0.4	75.9	23.7				
	1914	4	26	4	1,193	16	974	203	1.3	81.6	17.0	22,044,588	381,519	16,505,313	5,157,750	1.7	74.9	23.4				
Confectionery and ice cream.	1919	219	144	99	8,779	856	7,487	436	9.8	85.3	5.0	73,006,890	6,649,262	62,749,904	3,697,724	9.1	85.8	5.1				
	1914	150	106	76	5,829	757	4,575	497	13.0	78.5	8.5	27,061,002	2,032,925	21,815,472	2,312,605	10.8	80.6	8.5				
Electrical machinery, apparatus, and supplies.	1919	13	134	14	27,290	47	27,167	76	0.2	99.5	0.3	119,528,022	160,894	118,802,411	555,717	0.1	99.4	0.5				
	1914	27	103	12	16,483	125	16,286	72	0.8	98.8	0.4	45,667,456	265,165	45,171,971	230,380	0.6	98.9	0.5				
Engines, steam, gas, and water.	1919	2	22	1	8,645	.....	8,583	* 62	.....	99.3	0.7	45,741,267	.....	45,572,299	* 108,908	.....	99.6	0.4				
	1914	3	22	5	1,800	.....	1,774	* 86	.....	95.4	4.6	3,948,730	.....	3,799,726	* 149,004	.....	96.2	3.8				
Flour-mill and gristmill products.	1919	130	106	86	2,740	244	2,258	238	8.9	82.4	8.7	116,562,915	5,513,169	102,149,917	8,899,829	4.7	87.6	7.6				
	1914	193	97	116	2,308	420	1,660	318	17.5	69.2	13.3	49,403,224	7,281,852	37,622,238	5,189,134	14.7	74.8	10.5				
Food preparations, not elsewhere specified.	1919	43	68	23	4,061	177	3,648	236	4.4	89.8	5.8	94,240,307	2,685,520	87,660,168	3,894,619	2.8	93.0	4.1				
	1914	42	53	20	1,790	283	1,195	312	15.8	66.8	17.4	17,620,136	1,275,309	13,862,622	2,482,205	7.2	78.7	14.1				
Foundry and machine-shop products. <sup>4</sup>	1919	239	564	117	49,450	2,274	44,890	2,280	4.6	90.8	4.6	252,786,130	8,734,157	234,290,929	9,701,044	3.5	92.7	3.9				
	1914	214	490	117	37,130	1,641	34,148	1,344	4.4	92.0	3.6	95,368,347	3,469,967	88,578,019	3,320,361	3.6	92.9	3.5				
Furniture.....	1919	77	166	43	12,294	551	10,979	764	4.5	89.3	6.2	60,770,771	2,420,678	53,694,370	4,655,723	4.0	88.4	7.7				
	1914	70	160	44	13,350	804	11,487	1,059	6.0	86.0	7.0	31,889,569	1,741,157	27,480,200	2,668,212	5.5	86.2	8.4				
Hardware.....	1919	13	58	13	4,914	53	4,576	285	1.1	93.1	5.8	22,442,643	286,710	20,856,676	1,299,257	1.3	92.9	5.8				
	1914	20	53	7	4,035	193	3,590	252	4.8	89.0	6.2	10,407,290	337,584	9,553,457	516,249	3.2	91.8	5.0				
Iron and steel, steel works and rolling mills.	1919	.....	32	.....	20,177	.....	20,177	.....	100.0	.....	.....	173,344,650	.....	173,344,650	.....	.....	100.0	.....				
	1914	.....	25	.....	15,408	.....	15,408	.....	100.0	.....	.....	64,995,121	.....	64,995,121	.....	.....	100.0	.....				
Knit goods.....	1919	19	33	6	5,095	36	4,927	132	0.7	96.7	2.6	20,460,360	227,237	19,480,780	752,343	1.1	95.2	3.7				
	1914	16	27	3	3,535	152	3,345	38	4.3	94.6	1.1	7,367,235	275,150	7,007,362	84,717	3.7	95.1	1.1				
Leather, tanned, curried, and finished.	1919	1	19	9	4,434	.....	3,941	* 493	.....	88.9	11.1	60,323,659	.....	53,013,152	* 7,310,507	.....	87.9	12.1				
	1914	4	15	9	2,678	283	2,094	331	10.6	77.1	12.4	17,500,256	2,285,422	13,142,836	2,080,998	13.1	75.1	11.9				
Liquors, malt.....	1919	3	57	1	2,796	.....	2,771	* 25	.....	99.1	0.9	27,322,655	.....	27,161,242	* 161,413	.....	99.4	0.6				
	1914	8	75	6	5,749	85	5,576	88	1.5	97.0	1.5	39,435,995	449,304	38,302,121	684,570	1.1	97.1	1.7				
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	82	145	42	5,147	383	4,474	290	7.4	86.9	5.6	34,588,576	1,677,192	30,971,606	1,039,778	4.8	89.5	5.6				
	1914	109	177	47	7,734	632																



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

INDUSTRY AND CITY.	Cen- sus 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.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
Printing and publishing, newspapers and peri- odicals.	1919	572	432	200	10,120	1,168	8,417	535	11.5	83.2	5.3	\$88,945,060	\$5,321,731	\$70,295,402	\$4,328,767	6.0	80.1	4.9				
	1914	689	423	221	9,021	1,481	6,704	836	16.4	74.3	9.3	47,026,681	4,501,704	40,323,284	2,201,693	9.6	85.7	4.7				
Slaughtering and meat packing.	1919	7	57	8	54,179	454	53,530	195	0.8	98.8	0.4	1,284,103,016	20,949,930	1,256,948,360	6,204,726	1.6	97.9	0.5				
	1914	12	48	10	31,315	515	30,578	222	1.6	97.6	0.7	485,362,180	10,070,876	472,238,961	3,052,343	2.1	97.3	0.6				
Soap.....	1919	1	24	4	2,270	.....	2,220	1 50	.....	97.8	2.2	25,733,832	.....	25,337,590	1 396,242	.....	98.5	1.5				
	1914	7	18	2	2,144	.....	2,103	1 39	.....	98.2	1.8	21,420,035	.....	21,172,266	1 247,769	.....	98.8	1.2				
Steam fittings and steam and hot-water heating apparatus.	1919	4	24	.....	9,928	53	9,875	.....	0.5	99.5	.....	43,940,561	205,398	43,735,163	.....	0.5	99.5	.....				
	1914	4	20	1	2,579	2 54	2,525	.....	2.1	97.9	.....	5,470,380	2 147,487	5,322,893	.....	2.7	97.3	.....				
Stoves and hot-air fur- naces.	1919	5	49	2	4,880	.....	4,731	1 149	.....	96.0	3.1	22,522,771	.....	21,853,349	1 669,422	.....	97.0	3.0				
	1914	14	41	7	3,323	303	2,574	446	9.1	77.5	13.4	8,404,439	579,626	6,321,139	1,503,074	6.9	75.2	17.9				
Structural ironwork, not made in steel works or rolling mills.	1919	20	82	13	3,790	340	3,360	90	9.0	88.7	2.4	27,586,074	1,524,233	24,920,687	1,141,154	5.5	90.3	4.1				
	1914	31	64	20	4,933	351	4,482	100	7.1	90.9	2.0	16,023,040	1,051,293	14,604,473	367,274	6.6	91.1	2.3				
Tinware, not elsewhere specified.	1919	7	20	1	5,927	2 81	5,846	.....	1.4	98.6	.....	42,832,770	2 552,593	42,280,177	.....	1.3	98.7	.....				
	1914	11	21	.....	3,383	65	3,318	.....	1.9	98.1	.....	12,937,296	200,839	12,736,457	.....	1.6	98.4	.....				
Total for cities.....	1919	6,263	5,714	2,089	555,930	30,500	501,278	24,152	5.5	90.2	4.3	4,571,383,850	193,536,780	4,208,389,828	169,457,251	4.2	92.1	3.7				
	1914	6,477	4,774	1,967	408,976	32,895	350,684	25,397	8.0	85.7	6.2	1,843,239,978	105,499,247	1,657,111,431	80,629,300	5.7	89.9	4.4				
ALTON.....	1919	23	29	8	3,236	64	2,991	181	2.0	92.4	5.6	31,036,983	288,306	29,968,069	780,608	0.9	96.0	2.5				
	1914	40	28	8	2,682	140	2,383	139	5.3	89.5	5.2	12,894,532	438,916	12,093,442	327,174	3.4	94.0	2.6				
AURORA.....	1919	48	59	26	6,608	234	6,275	99	3.5	95.0	1.5	30,038,961	1,173,624	28,196,585	668,752	3.9	93.9	2.2				
	1914	57	56	27	4,777	264	4,096	417	5.5	85.7	8.7	10,789,383	645,855	9,930,083	912,845	6.0	85.5	8.5				
BELLEVILLE.....	1919	66	49	26	3,100	215	2,861	84	6.8	90.5	2.7	14,017,292	1,097,580	12,568,592	351,120	7.8	89.7	2.5				
	1914	71	35	23	2,450	205	2,125	120	8.4	86.7	4.9	5,727,269	370,888	5,140,553	215,828	6.5	89.8	3.8				
BERWYN.....	1919	12	2	1	25	14	2 11	.....	56.0	44.0	.....	155,157	112,237	2 42,920	.....	72.3	27.7	.....				
BLOOMINGTON.....	1919	42	29	12	2,818	154	2,604	60	5.5	92.4	2.1	11,519,580	496,723	10,531,494	491,363	4.3	91.4	4.3				
	1914	48	32	20	2,384	215	2,063	106	9.0	80.5	4.4	4,808,808	726,943	3,768,827	308,038	15.1	78.5	6.4				
BLUE ISLAND.....	1919	15	12	7	1,180	67	1,028	85	5.7	87.1	7.2	7,498,870	348,789	6,822,523	327,558	4.7	91.0	4.4				
CAIRO.....	1919	14	35	6	1,792	51	1,651	90	2.8	92.1	5.0	10,526,159	265,156	9,876,612	384,301	2.5	93.8	3.7				
	1914	16	32	13	1,522	49	1,348	125	3.2	88.6	8.2	4,583,539	162,907	4,134,604	285,968	3.6	90.2	6.2				
CANTON.....	1919	17	8	8	1,296	88	1,122	86	6.8	86.6	6.6	4,558,447	280,831	4,046,370	231,246	6.2	88.8	5.1				
	1914	15	9	10	920	54	824	42	5.9	89.6	4.6	2,576,965	110,886	2,351,551	114,528	4.3	91.3	4.4				
CENTRALIA.....	1919	18	9	3	1,003	56	937	10	5.6	93.4	1.0	3,010,556	298,966	2,540,616	170,974	9.9	84.4	5.7				
	1914	17	8	5	237	54	166	27	22.8	65.8	11.4	767,533	192,800	465,612	109,221	25.1	60.7	14.2				
CHAMPAIGN.....	1919	40	22	18	1,063	142	847	74	13.4	79.7	7.0	5,187,010	864,042	3,892,689	430,270	16.7	75.0	8.3				
	1914	30	19	10	382	53	281	18	21.7	73.6	4.7	1,244,096	277,359	908,008	64,334	22.3	72.5	5.2				
CHICAGO.....	1919	4,730	4,269	1,538	403,942	24,381	360,605	18,956	6.0	89.3	4.7	3,657,424,471	162,693,551	3,353,449,901	141,280,929	4.4	91.7	3.9				
	1914	5,078	3,613	1,424	313,710	27,532	265,955	20,223	8.8	84.8	6.4	1,483,495,416	89,213,226	1,329,465,505	64,819,685	6.0	89.6	4.4				
CHICAGO HEIGHTS.....	1919	33	54	16	5,328	70	5,204	45	1.5	97.7	0.8	41,788,147	531,486	41,026,511	230,150	1.3	98.2	0.6				
	1914	20	46	11	4,288	56	4,202	30	1.3	98.0	0.7	14,485,569	145,234	14,147,466	192,869	1.0	97.7	1.3				
CICERO.....	1919	44	40	8	14,754	66	14,615	73	0.4	99.1	0.5	57,918,418	553,502	57,023,700	341,216	1.0	98.5	0.6				
DANVILLE.....	1919	55	35	22	3,343	182	2,499	662	5.4	74.8	19.8	15,005,953	963,885	11,062,718	2,379,350	6.4	77.7	15.9				
	1914	47	32	21	2,109	156	1,705	248	7.4	80.8	11.8	5,291,160	432,992	4,458,271	399,927	8.2	84.3	7.6				
DECATUR.....	1919	37	54	12	5,093	106	5,420	167	1.9	95.2	2.9	38,683,689	787,728	37,227,991	667,970	2.0	96.2	1.7				
	1914	58	51	17	4,003	286	3,451	260	7.1	86.2	6.6	11,957,406	645,318	10,795,152	513,936	5.4	90.3	4.3				
EAST ST. LOUIS.....	1919	63	82	12	8,785	152	8,001	32	1.7	97.9	0.4	77,292,812	1,415,780	75,689,625	187,407	1.8	97.9	0.2				
	1914	52	65	8	5,563	276	5,564	23	4.7	94.9	0.4	26,904,565	853,128	25,970,434	70,003	3.2	96.5	0.3				
ELGIN.....	1919	27	41	12	6,846	139	6,667	40	2.0	97.4	0.6	25,048,801	418,553	24,552,173	678,165	1.6	95.7	2.6				
	1914	34	42	15	5,529	157	5,205	167	2.8	94.1	3.0	10,491,820	328,568	9,770,805	392,450	3.1	93.1	3.7				
EVANSTON.....	1919	47	25	29	1,405	98	1,127	189	7.0	80.2	12.8	9,791,025	839,698	7,933,691	1,017,636	8.0	81.0	10.4				
	1914	22	11	16	924	58	157	709	6.3	17.0	76.7	3,084,824	164,873	544,315	3,275,636	4.1	13.7	82.2				
FOREST PARK.....	1919	19	8	1	192	54	2 138	.....	28.1	71.9	.....	1,016,236	280,907	2 735,329	.....	27.6	72.4	.....				
FREEDPORT.....	1919	36	32	8	3,177	168	2,930	79	5.3	92.2	2.5	18,405,204	860,932	16,109,901	1,434,371	4.7	87.5	7.8				
	1914	29	26	8	2,566	153	2,330	83	6.0	90.8	3.2	7,446,977	460,442	6,628,929	357,606	6.2	89.0	4.8				
GALESBURG.....	1919	30	30	17	2,222	69	1,999	154	3.1	90.0	6.9	10,352,242	398,364	8,698,401	1,255,477	3.8	84.0	12.1				
	1914	19	28	13	1,362	45	1,207	110	3.3	88.6	8.1	3,192,129	136,276	2,685,225	370,628	4.3	84.1	11.6				
GRANITE CITY.....	1919	15	15	7	5,493	26	5,422	45	0.5	98.7	0.8	43,039,044	185,927	42,698,540	154,571	0.4	99.2	0.4				
	1914	19	13	7	5,090	53	5,012	25	1.0	98.5	0.5	17,903,162	131,988	17,693,958	77,2							



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

INDUSTRY AND CITY.	Cen- sus 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.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.						
Kewanee.....	1919	15	13	9	3,909	27	3,808	74	0.7	97.4	1.9	\$16,278,508	\$103,451	\$15,638,976	\$476,081	1.0	96.1	2.9				
	1914	11	9	11	2,837	17	2,746	74	0.6	96.8	2.6	5,446,615	54,481	5,070,774	321,360	1.0	93.1	5.9				
La Salle.....	1919	25	9	4	1,792	74	1,700	18	4.1	94.0	1.0	9,533,706	603,143	8,804,126	126,437	6.3	92.3	1.3				
	1914	19	7	4	1,214	74	1,134	6	0.1	93.4	0.5	5,245,780	253,487	4,971,510	20,783	4.8	94.8	0.4				
Lincoln.....	1919	14	11	8	104	33	137	24	17.0	70.6	12.4	784,734	189,823	447,344	147,597	24.2	57.0	18.8				
	1914	17	10	13	239	50	146	43	20.9	61.1	18.0	560,637	106,930	367,032	85,775	19.1	65.6	15.3				
Mattoon.....	1919	37	13	15	1,134	101	984	49	8.9	86.8	4.3	4,051,058	636,545	3,099,887	314,626	15.7	76.5	7.8				
	1914	24	14	9	735	57	641	37	7.8	87.2	5.0	1,543,727	239,151	1,091,074	213,502	15.5	70.7	13.8				
Maywood.....	1919	13	7	7	2,217	30	2,181	6	1.4	98.4	0.3	14,432,705	218,975	14,174,360	39,370	1.5	98.2	0.3				
Moline.....	1919	14	37	10	5,444	113	5,307	24	2.1	97.5	0.4	44,871,021	483,994	44,211,889	175,138	1.1	98.5	0.4				
	1914	41	50	17	5,053	104	4,925	24	2.1	97.5	0.5	19,925,106	406,291	19,422,034	96,781	2.0	97.5	0.5				
Murphysboro.....	1919	10	14	4	1,139	25	1,110	4	2.2	97.5	0.4	6,208,317	142,560	6,017,340	48,417	2.3	96.0	0.8				
Oak Park.....	1919	20	11	4	383	47	328	8	12.3	85.6	2.1	2,280,640	459,365	1,773,779	47,496	26.1	77.8	2.1				
	1914	27	9	11	268	29	220	19	10.8	82.1	7.1	1,555,083	180,846	1,248,278	126,959	11.6	80.3	8.1				
Ottawa.....	1919	30	17	6	729	224	480	25	30.7	65.8	3.4	3,223,647	738,772	2,320,056	155,219	22.9	72.3	4.8				
Pekin.....	1919	20	12	5	934	91	820	23	0.7	87.8	2.5	25,663,908	232,278	25,117,587	314,103	0.9	97.9	1.2				
	1914	26	11	7	634	90	510	34	14.2	80.4	5.4	9,609,500	192,837	9,248,390	168,803	2.0	96.2	1.8				
Peoria.....	1919	107	105	41	7,977	509	7,103	365	6.4	89.0	4.6	57,074,893	2,897,443	51,112,143	3,065,307	5.1	89.5	5.4				
	1914	125	102	56	6,285	565	5,370	350	9.0	85.4	5.6	64,689,015	2,933,675	60,551,055	1,203,715	4.5	93.6	1.9				
Quincy.....	1919	85	83	15	4,443	450	3,921	72	10.1	88.2	1.6	23,498,813	1,090,850	20,969,303	538,660	8.5	89.2	2.3				
	1914	93	76	25	3,067	271	2,508	288	8.8	81.8	9.4	9,556,918	961,486	7,604,410	991,016	10.1	79.6	10.4				
Rock Island.....	1919	40	36	7	3,208	199	2,930	100	5.3	91.6	3.1	22,350,114	1,011,310	20,925,297	413,537	4.5	93.0	1.0				
	1914	48	38	20	1,637	176	1,682	80	0.5	86.1	4.4	6,487,850	411,210	5,861,002	215,647	6.3	90.3	3.3				
Rockford.....	1919	94	180	38	14,092	399	13,410	1,177	2.7	89.5	7.9	74,018,953	2,169,687	67,551,216	5,198,050	2.9	90.2	6.9				
	1914	91	143	31	10,472	446	9,335	691	4.3	89.1	6.6	26,371,210	1,237,464	23,409,394	1,724,361	4.7	88.8	6.5				
Springfield.....	1919	82	58	41	5,365	411	4,527	427	7.7	84.4	8.0	22,723,365	1,630,118	19,265,748	1,827,499	7.2	84.8	8.0				
	1914	95	48	46	4,157	432	3,395	330	10.4	81.7	7.9	11,769,969	1,239,865	9,659,416	870,688	10.5	82.1	7.4				
Streator.....	1919	42	18	9	1,301	213	1,025	63	16.4	78.8	4.8	6,062,302	910,723	5,251,276	494,303	13.8	78.8	7.4				
	1914	35	17	8	1,763	223	1,514	26	12.0	85.9	1.5	3,886,617	302,423	3,462,452	121,742	7.8	89.1	3.1				
Urbana.....	1919	20	12	11	500	42	427	40	8.3	83.9	7.9	1,450,522	169,063	1,091,276	192,583	11.5	75.2	13.3				
Waukegan.....	1919	23	25	4	2,538	88	2,422	28	3.5	95.4	1.1	21,093,062	647,634	23,340,703	104,725	2.7	96.9	0.4				
	1914	27	15	6	2,276	74	2,192	10	3.3	96.3	0.4	12,438,514	242,076	12,130,063	65,475	2.0	97.5	0.5				

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

	Cen- sus year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER. <sup>1</sup>	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.
Number of places.....	1919		44	.....	27	.....	16	.....	1	.....		.....
	1914		35	.....	20	.....	14	.....	1	.....		.....
	1909		32	.....	20	.....	11	.....	1	.....		.....
Population <sup>2</sup> .....	1920	6,485,280	3,808,158	58.7	406,143	6.3	700,310	10.8	2,701,705	41.7	2,677,122	41.3
	1915	5,986,781	3,276,504	54.7	318,472	5.3	560,432	9.4	2,397,600	40.0	2,710,277	45.3
	1910	5,638,591	2,950,993	52.3	331,285	5.9	434,395	7.7	2,185,283	38.8	2,687,628	47.7
Number of establishments.....	1919	18,593	14,066	75.7	1,385	7.4	2,144	11.5	10,537	56.7	4,527	24.3
	1914	18,388	13,218	71.9	1,091	5.9	2,012	10.9	10,115	55.0	5,170	28.1
	1909	18,026	12,520	69.5	1,076	6.0	1,788	9.9	9,656	53.6	5,506	30.5
Average number of wage earners.....	1919	653,114	555,030	85.1	48,665	7.5	103,323	15.8	403,942	61.8	97,184	14.9
	1914	606,943	498,976	80.7	33,807	6.7	61,459	12.1	315,710	61.9	97,937	19.3
	1909	465,764	379,100	81.4	32,893	7.1	52,230	11.2	293,977	63.1	86,064	18.6
Value of products.....	1919	\$5,425,244,604	\$4,571,383,859	84.3	\$317,672,724	5.9	\$596,286,064	11.0	\$3,657,424,471	67.4	\$893,800,835	15.7
	1914	2,247,322,810	1,843,239,978	82.0	110,627,056	5.2	243,114,506	10.8	1,483,498,416	66.0	401,082,811	18.0
	1909	1,919,276,594	1,592,407,931	83.0	109,948,749	5.7	201,288,001	10.5	1,281,171,181	66.8	326,898,063	17.0
Value added by manufacture.....	1919	1,936,974,248	1,678,594,459	86.7	133,355,990	6.9	207,026,247	13.8	1,278,182,243	66.0	258,409,789	13.3
	1914	907,139,412	757,599,917	83.5	52,843,874	5.8	123,191,021	13.6	581,595,022	64.1	149,539,495	16.5
	1909	758,349,904	640,926,356	81.5	46,869,118	6.0	104,494,815	13.8	490,562,423	64.7	117,423,548	15.5

<sup>1</sup> Includes statistics for Cicero for 1914 and 1909 to avoid disclosure of individual operations.<sup>2</sup> 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.







## MANUFACTURES—ILLINOIS.

27

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

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	85,901	51,484	30,546	1,660,918	1,305,930	1,013,071	100.0	100.0	100.0
Owned.....	6,638	8,003	8,700	1,064,706	1,021,759	889,348	64.1	78.2	87.8
Steam.....	5,294	6,142	6,728	997,338	947,949	839,632	60.0	72.6	82.9
Engines.....	4,884	(2)	(2)	779,156	(2)	(2)	46.9		
Turbines.....	410	(2)	(2)	218,182	(2)	(2)	13.1		
Internal-combustion engines.....	1,195	1,072	1,755	55,782	61,500	37,025	3.4	4.7	3.7
Water.....	149	180	217	11,586	12,310	12,601	0.7	0.9	1.3
Water wheels and turbines.....	126	148	182	11,438	11,905	12,178	0.7	0.9	1.2
Water motors.....	23	41	35	148	345	513	(3)	(3)	0.1
Rented.....	79,263	43,481	21,846	596,212	284,171	123,723	35.9	21.8	12.2
Electric.....	79,263	43,481	21,846	596,212	272,662	117,007	35.5	20.9	11.5
Other.....				5,971	11,509	6,716	0.4	0.9	0.7
Electric.....	122,769	72,004	39,278	1,174,507	681,474	398,621	100.0	100.0	100.0
Rented.....	79,263	43,481	21,846	596,212	272,662	117,007	50.3	40.0	20.4
Generated by establishments reporting.....	43,506	28,523	17,432	584,326	408,812	281,614	49.7	60.0	70.6

<sup>1</sup> Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power. <sup>2</sup> Not reported separately. <sup>3</sup> 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.....	238,451	16,502,727	3,003,043	4,876,501	114,255	3,557,098
Per cent of increase.....	1919. 219,014	1914. 14,499,282	2,680,250	4,111,366	(1) 114,255	1,831,684
	8.6	13.8	45.1	21.4	(1)	94.2
Agricultural implements.....	98	288,295	43,202	164,194	5,052	206,742
Bread and other bakery products.....	19,581	56,006	44,779	5,587	6,944	182,748
Brick and tile, terra-cotta, and fire-clay products.....	4,949	745,465	2,009	153,405	3,171	
Cars and general shop construction and repairs by steam-railroad companies.....	822	872,327	2,741	116,744	1,057	1,837
Cars, steam-railroad, not including operations of railroad companies.....	709	177,503	21,114	149,754	646	5,577
Cement.....		389,612				
Chemicals.....	132	407,312	20,353	11,110	610	15,350
Coke, not including gas-house coke.....		2,457,626		8,086		
Electrical machinery, apparatus, and supplies.....	424	124,772	7,002	8,674	4,581	444,098
Engines, steam, gas, and water.....	60	60,740	11,388	33,035	12,111	143,515
Flour-mill and gristmill products.....	269	179,678	604	1,087	1,006	125
Food preparations, not elsewhere specified.....	270	145,941	1,320	5	90	48,076
Foundry and machine-shop products.....	3,421	501,101	148,618	93,135	8,563	184,330
Furniture.....	1,015	96,587	693	180	265	19,665
Gas, illuminating and heating.....	77,309	619,318	487,850	2,147,811	196	4,748
Glass.....	3	418,860	120,000	52,057	30	200
Glucose and starch.....		485,876	12,336			23,315
Glue, not elsewhere specified.....	4	118,112	72	346		138
Ice, manufactured.....	1,302	259,087	680	375	47	74
Iron and steel, blast furnaces.....		48,798	2,658,036	77		
Iron and steel, steel works and rolling mills.....	1,103	1,792,476	33,325	575,473	30,450	452,048
Iron and steel forgings, not made in steel works or rolling mills.....	1,238	109,511	1,840	54,742	33	25,604
Leather, tanned, curled, and finished.....	351	100,851		10		
Liquors, malt.....	3,528	227,091	620	112	915	500
Paints.....	74	80,947	4,540	8,670	3	2,153
Paper and wood pulp.....		275,179	5,568	1,016	115	
Petroleum, refining.....		533,215	3,192	809,885	11	
Roofing materials.....		145,883		41,601	59	27,195
Slaughtering and meat packing.....		1,550,210	935	48,440	1,035	130,009
Smelting and refining, lead.....		26,854	32,753	1,866		
Smelting and refining, zinc.....	58,233	501,106	101,208	11	335	
Steam fittings and steam and hot-water heating apparatus.....	6,362	67,754	34,507	71,551	225	35,302
Stoves and hot-air furnaces.....	318	33,015	15,039	347	161	92
Structural ironwork, not made in steel works or rolling mills.....	102	65,938	5,811	11,130	4,712	16,708
Tools, not elsewhere specified.....	67	33,908	604	31,804	102	22,318
Wire.....	1,944	153,384	1,675	4,072	472	4,244
All other industries.....	53,767	2,203,593	70,618	209,509	31,258	1,553,829
Total for cities.....	182,557	12,684,582	3,739,856	3,694,245	91,304	3,222,874
ALTON.....		199,134	121,743	3,511	3,352	157
AURORA.....		74,370	10,984	31,005	349	32,319
BELLEVIEW.....	431	38,219	6,230	211	308	3,555
BERWYN.....	77	77	134		72	202
BLOOMINGTON.....	29	52,841	2,255	13,437	51	
BLUE ISLAND.....	10					
CAIRO.....	4,933	72,299	8,412	57,567	37	685
CANTON.....	50	21,723	125	686	73	
CENTRALIA.....		31,130	2,013	8,247	20	286
CHAMPAIGN.....	32	22,293	153	470	2	539
		17,824	1,120	12,300	15	1,577

<sup>1</sup> Included in figures for fuel oils.



## MANUFACTURES—ILLINOIS.

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

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).				
CHICAGO.....	140,219	6,702,976	2,919,398	2,751,365	39,175	2,718,429
CHICAGO HEIGHTS.....	984	220,929	6,771	52,373	31,006	2,913
CICERO.....	4,830	155,567	26,174	26,132	4,613	189,938
DANVILLE.....	4	184,261	952	8,822	617	45,634
DECATUR.....	300	202,081	3,855	20,139	191	12,495
EAST ST. LOUIS.....	6,838	567,833	94,158	99,125	251	8,902
ELGIN.....	42	37,208	1,928	778	79	33,401
EVANSTON.....	3,424	45,352	15,211	92,662	47	608
FOREST PARK.....	25	898	90	1	113	.....
FREEPORT.....	45	52,518	6,599	0,482	177	5,621
GALESBURG.....	14	84,138	1,941	9,678	43	5,540
GRANITE CITY.....	.....	255,500	5,006	125,178	762	2,598
HERRIN.....	145	2,016	.....	.....	23	.....
JACKSONVILLE.....	48	21,127	504	966	27	2,567
JOLIET.....	221	1,647,026	408,825	16,125	676	7,666
KANKAKEE.....	49	48,627	272	42	102	.....
KEWANEE.....	2	55,370	10,754	37,001	135	8,018
LA SALLE.....	7,788	330,046	2,461	582	156	452
LINCOLN.....	7	8,393	110	.....	35	648
MATTOON.....	.....	24,154	151	.....	19	240
MAYWOOD.....	2,102	21,036	280	.....	1	9,312
MOLINE.....	45	77,185	19,082	87,952	1,243	7,323
MURPHYSBORO.....	64	47,486	1,591	6,311	142	296
OAK PARK.....	399	12,598	21,414	75,464	95	888
OTTAWA.....	.....	45,300	2,021	8,641	311	396
PEKIN.....	502	133,753	4,701	6	34	360
PEORIA.....	740	336,154	8,970	9,933	2,060	32,664
QUINCY.....	704	96,955	1,807	1,807	99	3,329
ROCK ISLAND.....	14	38,270	4,271	11,828	3,718	27,092
ROCKFORD.....	655	205,970	8,703	38,274	209	39,265
SPRINGFIELD.....	103	90,997	2,030	22,215	847	10,384
STREATOR.....	498	160,546	663	32,507	13	153
URBANA.....	.....	11,566	240	.....	.....	843
WAUKEGAN.....	94	221,277	1,000	21,342	123	5,421

## 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 17 of these industries in Illinois are here presented.

**Slaughtering and meat packing** (Table 19).—This table presents data for the census years 1919, 1914, and 1909 for the number and cost of the most important classes of animals slaughtered; the cost of all other materials, which includes that for dressed meat purchased for curing, goats and kids, poultry, cottonseed oil for making lard compounds and substitutes, butter and whole milk for making oleomargarine, curing materials, seasoning, containers, materials for making ice, fuel, rent of power, mill supplies, and freight; and the quantity and value of the leading products that can be presented without disclosing individual operations. The value of the minor and auxiliary products is reported under "All other products" and, for 1919, includes that for canned sausage, meat puddings, headcheese and scrapple, lard oil, oil (not specified), skins (other than cattle,

calf, and sheep), ice, stock feed, refined cottonseed oil, and preserves. The value of goat and kid meat and dressed poultry is included in that for "Edible offal and other fresh meat."

The number of animals slaughtered in 1919 for which totals are shown was 18,061,773, and in 1914, 14,393,048, an increase of 3,668,725, or 25.5 per cent. The meat production in 1919, as presented in the table, was 2,222,477,098 pounds of fresh meat, as compared with 1,710,176,962 pounds in 1914, an increase of 512,300,136 pounds, or 30 per cent.

In 1919 the quantity of cured meat, canned goods, and sausage totaled 1,555,178,623 pounds, as compared with 1,113,239,889 pounds in 1914, an increase of 441,938,734 pounds, or 39.7 per cent. These three classes of products combined show an increase in quantity during the five-year period of 954,238,870 pounds, or 33.8 per cent. The increases in value are much greater than for quantities but are deemed of less significance as an indication of the growth of the industry.



TABLE 19.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$1,142,950,402	\$408,895,070	\$341,317,677
Animals slaughtered, cost.....	\$790,732,706	\$301,635,505	\$241,850,653
Bees—			
Number.....	2,887,414	1,804,082	2,181,100
Cost.....	\$202,428,922	\$133,022,806	\$109,900,873
Calves—			
Number.....	830,004	430,610	513,630
Cost.....	\$17,310,534	\$5,685,254	\$4,720,290
Sheep and lambs—			
Number.....	4,358,564	4,882,040	3,802,142
Cost.....	\$40,135,520	\$27,342,070	\$19,420,169
Hogs—			
Number.....	9,976,191	7,205,510	7,293,544
Cost.....	\$437,857,730	\$135,585,276	\$107,716,321
All other materials, cost.....	\$316,217,786	\$107,259,505	\$99,491,021
<b>PRODUCTS.</b>			
Total value.....	\$1,284,103,016	\$485,362,180	\$386,365,962
Fresh meat, value.....	\$433,441,943	\$100,155,448	\$146,905,300
Beef—			
Pounds.....	1,364,421,895	1,000,912,830	1,142,920,916
Value.....	\$247,315,429	\$117,139,784	\$85,704,478
Veal—			
Pounds.....	77,851,254	41,388,491	51,359,103
Value.....	\$15,327,876	\$5,474,481	\$4,781,751
Mutton and lamb—			
Pounds.....	102,303,710	197,647,411	157,015,125
Value.....	\$41,073,511	\$23,094,431	\$15,051,307
Pork—			
Pounds.....	462,065,805	374,315,928	303,830,802
Value.....	\$112,403,650	\$43,380,794	\$30,221,023
Edible offal and other fresh meat—			
Pounds.....	155,234,434	95,882,209	102,514,045
Value.....	\$16,421,477	\$7,065,058	\$11,146,711
Cured meat, value.....	\$359,340,819	\$115,893,408	\$82,725,501
Beef, pickled and other cured—			
Pounds.....	59,074,801	32,738,293	53,065,710
Value.....	\$12,510,976	\$5,361,447	\$4,670,501
Pork, pickled and other cured—			
Pounds.....	1,181,812,053	854,815,104	720,210,904
Value.....	\$346,808,843	\$110,501,901	\$78,049,000
Canned goods:			
Pounds.....	133,676,624	113,047,300	78,155,327
Value.....	\$45,001,062	\$18,087,864	\$9,677,618
Sausage:			
Pounds.....	180,615,145	112,639,102	113,631,970
Value.....	\$42,431,818	\$16,030,339	\$11,654,787
Lard:			
Pounds.....	467,185,468	335,605,330	403,177,806
Value.....	\$146,123,019	\$36,870,104	\$40,592,051
Lard compounds and other substitutes:			
Pounds.....	103,898,342	95,574,742	( <sup>1</sup> )
Value.....	\$38,230,161	\$7,978,766	( <sup>1</sup> )
Oleo oil:			
Gallons.....	5,870,914	6,156,607	7,038,568
Value.....	\$11,310,060	\$4,505,781	\$6,694,011
Tallow and oleo stock:			
Pounds.....	93,341,942	48,880,548	44,319,760
Value.....	\$0,449,570	\$3,349,702	\$2,719,909
Grease and soap stock:			
Pounds.....	44,874,851	16,033,001	( <sup>1</sup> )
Value.....	\$4,705,248	\$808,630	( <sup>1</sup> )
Oleo stearin:			
Pounds.....	13,953,680	7,850,351	18,739,840
Value.....	\$2,255,342	\$737,475	\$2,380,908
Oleomargarine:			
Pounds.....	76,034,222	40,498,670	30,793,365
Value.....	\$22,051,311	\$5,975,088	\$4,413,578
Casings:			
Pounds.....	52,121,619	31,421,770	( <sup>1</sup> )
Value.....	\$8,578,978	\$4,554,942	( <sup>1</sup> )
Horns, horns, horn tips, strips, and waste:			
Pounds.....	19,775,088	23,302,458	( <sup>1</sup> )
Value.....	\$581,876	\$220,280	( <sup>1</sup> )
Fertilizer, and fertilizer materials:			
Tons.....	118,906	91,163	102,638
Value.....	\$5,135,708	\$2,692,831	\$2,614,087
Glue:			
Pounds.....	13,800,858	10,023,781	10,806,271
Value.....	\$1,838,481	\$1,704,320	\$900,182
Hides and pelts:			
Cattle—			
Number.....	2,887,414	1,804,082	
Pounds.....	151,966,238	107,513,830	
Value.....	\$50,195,637	\$19,235,802	2,408,757
Calf—			
Number.....	752,733	208,429	
Pounds.....	9,711,229	4,007,169	
Value.....	\$5,344,281	\$808,157	135,617,670
Sheep—			
Pounds.....	3,306,234	4,880,057	
Value.....	\$9,885,290	\$3,927,174	\$10,372,440
Hair, hog and cattle:			
Pounds.....	37,898,337	( <sup>1</sup> )	( <sup>1</sup> )
Value.....	\$2,877,031	( <sup>1</sup> )	( <sup>1</sup> )
Wool:			
Pounds.....	15,274,599	14,004,038	10,688,105
Value.....	\$9,368,562	\$4,170,684	\$4,523,534
All other products, value.....	\$75,317,210	\$41,495,770	\$47,313,028

<sup>1</sup> Not reported separately.

Printing and publishing (Tables 20 and 21).—Table 20 shows the number and aggregate circulation per issue for the different classes of newspaper and periodical publications in Illinois for 1919, 1914, and 1909.

The total increase in circulation for the five-year period 1914 to 1919 was 1,371,743, or 5.5 per cent. The increase for the daily newspapers was 620,593, or 23.6 per cent, and for the Sunday newspapers, 250,963, or 15.3 per cent. Of the dailies, 118 with a circulation of 1,759,274, or 53.1 per cent, were published in the afternoon, showing an increase of 119,964, or 7.3 per cent, over the circulation reported for 1914. The 50 morning newspapers gained 500,629, or 51 per cent, for the five years.

Table 21 gives the number and circulation of foreign-language publications in 1919, 1914, and 1909, by period of issue, compared with those published in the English language. Publications partly in English and partly in foreign languages are included with the foreign.

During the five-year period 1914 to 1919 the circulation of foreign-language publications in Illinois increased 33,493, or 1.7 per cent. The circulation of these publications constituted 7.6 per cent of the circulation of all publications in 1919 and 7.9 per cent in 1914. The increase in circulation of foreign-language daily and Sunday publications from 1914 to 1919 is notable, being 332,853, or 60.4 per cent.

The foreign languages represented are: Armenian, 1 semiweekly and 1 weekly; Bohemian, 19 publications with a circulation of 146,536—4 dailies, 4 Sunday newspapers, 6 semiweeklies, 1 weekly, 3 monthly publications, and 1 quarterly; Bulgarian, 1 daily and 1 weekly; Croatian, 3 weeklies with a circulation of 14,200; Danish, 5 publications with a circulation of 11,650—4 weeklies and 1 monthly; Dutch, 1 weekly; Finnish, 1 quarterly; Flemish, 1 weekly; French, 1 quarterly; German, 37 publications with a circulation of 259,346—5 dailies, 3 Sunday publications, 19 weeklies, 2 semimonthly, 2 monthly, and 6 quarterly publications; Greek, 2 weeklies; Hungarian, 3 publications with a circulation of 8,200—1 Sunday, 1 weekly, and 1 quarterly; Italian, 5 publications with a circulation of 18,000—1 semiweekly, 3 weeklies, and 1 quarterly; Lithuanian, 5 publications with a circulation of 140,865—3 dailies and 2 monthly publications; Norwegian, 1 weekly; Polish, 8 publications with a circulation of 280,990—4 dailies, 3 weeklies, and 1 quarterly; Rumanian, 1 quarterly; Russian, 1 daily and 1 monthly; Servian, 1 weekly; Slovak, 13 publications with a circulation of 101,827—3 dailies, 1 Sunday, 1 semiweekly, 7 weeklies, and 1 quarterly; Slovenian, 8 publications with a circulation of 35,961—1 daily, 2 semiweeklies, 3 weeklies, 1 monthly, and 1 bimonthly; Spanish, 1 semimonthly and 1 quarterly; Swedish, 20 publications with a circulation of 257,469—12 weeklies, 1 semimonthly, 4 monthly, and 3 quarterly publications; Ukrainian, 1 weekly; Yiddish, 12



## MANUFACTURES—ILLINOIS.

publications with a circulation of 247,648—4 dailies, 4 Sunday publications, 3 weeklies, and 1 quarterly. There were 4 publications in Norwegian-Danish, with a circulation of 72,532—1 daily, 1 Sunday, 1 weekly, and 1 semiweekly; 1 monthly in English-Bohemian; 1 semimonthly in English-French; 4 publications in English-German with a circulation of 151,900—2 weeklies and 2 monthlies; 1 semimonthly in English-Persian; 1 monthly in English-Spanish; and 3 weeklies in English-Swedish, with a circulation of 39,150.

TABLE 20.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	1,523	1,657	1,682	26,473,359	25,101,616	20,823,166
Daily.....	168	184	194	3,241,254	2,620,661	2,323,913
Sunday.....	41	48	38	1,886,084	1,635,121	1,616,506
Semiweekly.....	33	36	41	127,849	91,869	113,915
Triweekly.....	3	5	7	6,747	12,500	24,250
Weekly.....	866	967	1,018	5,551,012	6,216,667	5,008,590
Semimonthly.....	38	31	29	217,155	356,677	246,185
Monthly.....	305	312	289	11,279,045	10,242,371	9,492,099
Quarterly.....	63	54	50	4,150,366	3,828,606	1,967,558
All other classes <sup>1</sup> .....	6	20	16	13,847	97,144	30,150

<sup>1</sup> Includes in 1919, 6 bimonthlies; in 1914, 11 bimonthlies and 9 semiannuals; and in 1909, 9 bimonthlies and 7 classed as "All other."

TABLE 21.—PRINTING AND PUBLISHING—CIRCULATION, ENGLISH AND FOREIGN: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	Census year.	TOTAL.		IN ENGLISH.		IN FOREIGN LANGUAGES.	
		Number.	Aggregate circulation per issue.	Number.	Aggregate circulation per issue.	Number.	Aggregate circulation per issue.
Total.....	1919	1,523	26,473,359	1,352	24,459,049	171	2,014,310
	1914	1,657	25,101,616	1,476	23,120,799	181	1,980,817
	1909	1,682	20,823,166	1,509	19,305,799	173	1,457,367
Daily and Sunday ..	1919	209	5,127,338	168	4,243,267	41	884,071
	1914	232	4,255,782	189	3,704,564	43	551,218
	1909	232	3,940,419	201	3,461,495	31	479,924
Semiweekly and tri-weekly.	1919	36	134,596	24	45,737	12	88,859
	1914	41	104,369	30	52,772	11	51,597
	1909	48	138,165	34	61,965	14	76,200
Weekly.....	1919	866	5,551,012	792	4,948,514	74	602,498
	1914	967	6,216,667	874	5,255,530	93	981,137
	1909	1,018	5,008,590	923	4,448,973	95	559,617
Monthly.....	1919	305	11,279,045	287	10,990,086	18	288,959
	1914	312	10,242,371	294	9,955,945	18	285,426
	1909	289	9,492,099	267	9,239,890	22	262,209
Quarterly.....	1919	63	4,150,366	44	4,051,132	19	99,234
	1914	54	3,828,606	46	3,800,056	8	28,550
	1909	50	1,967,558	44	1,885,266	6	82,292
All other classes <sup>1</sup> ..	1919	44	231,002	37	180,313	7	50,689
	1914	51	453,821	43	370,932	8	82,889
	1909	45	276,335	40	265,210	5	11,125

<sup>1</sup> Includes in 1919, 32 semimonthly and 5 bimonthly publications in English, and 6 semimonthlies and 1 bimonthly publication in foreign languages; in 1914, 24 semimonthly, 11 bimonthly, and 8 semiannual publications in English, and 7 semimonthly and 1 semiannual publication in foreign languages; and in 1909, 24 semimonthly, 9 bimonthly, and 7 "All other" publications in English, and 5 semimonthly publications in foreign languages.

Iron and steel, blast furnaces (Table 22).—This table shows the production statistics for the pig-iron industry for 1919, 1914, and 1909.

The bulk of the pig-iron product of the state was used in the steel furnaces, 76.6 per cent being delivered from the blast furnaces in a molten condition.

Illinois ranked third in the industry in value of products in 1919, being exceeded only by Pennsylvania and Ohio.

TABLE 22.—BLAST FURNACES: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$64,762,411	\$25,861,528	\$38,299,897
Pig iron:			
Tons (2,240 lbs.).....	2,528,888	1,843,333	2,468,772
Value.....	\$61,734,928	\$25,360,306	\$38,299,897
Unit value, ton.....	\$24.40	\$13.75	\$15.50
All other products, value.....	\$3,027,483	\$501,222	.....

Steel works and rolling mills (Table 23).—This table shows the quantity and cost of the principal materials and the product statistics for the steel works and rolling mills for 1919, 1914, and 1909.

The state ranked fourth in the industry in value of products in 1919, being exceeded by Pennsylvania, Ohio, and Indiana. The leading rolled products in order of tonnage were (1) plates and sheets; (2) rods; (3) bars; (4) structural shapes; (5) rail joints and fastenings; and (6) rails.

TABLE 23.—STEEL WORKS AND ROLLING MILLS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$100,319,478	\$39,938,004	\$56,244,463
Pig iron and ferroalloys:			
Tons (2,240 lbs.).....	2,318,920	1,637,922	2,433,805
Cost.....	\$60,790,941	\$24,026,163	\$36,686,448
Scrap, purchased:			
Tons.....	511,160	290,888	278,874
Cost.....	\$10,387,892	\$2,980,465	\$3,990,891
Steel, crude and semifinished, muck and scrap bar and rails for rerolling, purchased:			
Tons.....	205,467	294,090	280,727
Cost.....	\$7,146,889	\$5,577,931	\$6,357,611
All other materials, including fuel and rent of power, cost.....	\$21,993,756	\$7,347,505	\$9,203,513
PRODUCTS.			
Total value.....	\$173,344,650	\$64,995,121	\$86,608,137
Rolled, forged, and other classified products:			
Tons (2,240 lbs.).....	2,610,461	1,901,330	2,644,191
Value.....	\$157,020,544	\$58,695,178	\$78,841,720
All other products, including value added to rolling-mill products by further manufacture.....	\$16,318,106	\$6,299,943	\$7,766,417

Agricultural implements (Table 24).—This table shows the value of the principal groups of agricultural implements manufactured in Illinois during the census years 1919, 1914, and 1909.

Illinois ranked first in 1919, 1914, and 1909 in the manufacture of agricultural implements. During the five-year period 1914–1919, there was an increase of \$62,947,053, or 96.3 per cent, in the total value of products for the industry. Of the four main groups, harvesting implements, the most important by value of products at each of the three censuses, shows an increase during the five-year period mentioned of \$8,628,280, or 31.7 per cent. Plows and cultivators increased \$12,169,306, or 68.9 per cent; seed separators, \$3,419,950, or 156.6 per cent; and planters and seeders, \$1,698,292, or 46.5 per cent.



The total value of products for each census includes the value of products incident to the manufacture of agricultural implements, which are relatively of much importance. In 1919 such products amounted to \$23,494,024, of which \$2,653,599 represented the value of wagons, automobiles, and engines, \$10,374,867 the value of tractors, and \$10,465,558 the value of other products, such as manure spreaders, ensilage cutters, feed grinders, etc.

TABLE 24.—AGRICULTURAL IMPLEMENTS: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$128,284,716	\$65,337,663	\$57,268,325
Planters and seeders.....	5,352,515	3,654,223	4,142,234
Plows and cultivators.....	29,822,582	17,653,270	15,961,417
Harvesting implements.....	35,805,793	27,177,513	
Hayrakes and tedders.....	2,152,549	1,882,753	
Mowers and reapers.....	32,060,910	23,462,016	22,417,070
Other.....	1,592,331	1,852,714	
Seed separators.....	5,603,500		
Thrashers.....	2,415,192		
Other.....	3,188,308	2,483,640	1,847,026
All other agricultural implements, including parts.....	18,639,044	7,560,021	
All other products.....	23,494,024	6,821,321	12,528,685
Amount received for repair work.....	9,507,168	287,600	371,803

Electrical machinery, apparatus, and supplies (Table 25).—This table gives in detail the value of the several classes of electrical machinery, apparatus, and supplies manufactured in 1919.

Among the states, Illinois ranked fourth in 1919 in the manufacture of electrical machinery, apparatus, and supplies. The state ranked first in the manufacture of telephone apparatus, with 79.7 per cent of the total value of such products for the United States.

Of the various products shown in Table 25, telephone apparatus was the most important, representing 30.8 per cent of the total value of products of the industry in the state. Insulated wire was second in importance among those for which separate values are given, with 15.6 per cent of the total.

TABLE 25.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: 1919.

	1919
Products, total value <sup>1</sup> .....	\$119,528,022
Telephone apparatus.....	36,800,805
Insulated wire and cables.....	18,630,109
Household and industrial apparatus and devices.....	7,004,879
Batteries.....	4,585,712
Generating apparatus and parts.....	3,945,737
Therapeutic apparatus and X-ray tubes.....	2,838,901
Motors.....	2,180,959
Incandescent lamps.....	2,161,349
Magnetolignition apparatus.....	1,723,930
Telegraph apparatus.....	1,359,753
Transformers and feeder potential regulators.....	1,040,293
Searchlights, projectors, and focusing lamps.....	536,215
Switchboards, panel boards, and cut-out cabinets for light and power.....	444,605
Carbons.....	267,210
All other electrical machinery, apparatus, and supplies <sup>2</sup> .....	27,131,011
All other products.....	5,000,994
Amount received for custom work and repairing.....	2,529,554

<sup>1</sup>In addition, electrical machinery, apparatus, and supplies to the value of \$3,275,197 were reported by establishments engaged primarily in other industries.

<sup>2</sup>In addition to products not specially provided for, includes several classes of products, the value of which can not be shown separately without disclosing individual operations. Among these are fuses, measuring instruments, pole-line hardware, electric locomotives, conduits, sockets, clocks, etc.

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

Wheat flour was the product of chief value in 1919, as it was in 1914 and 1909, forming 66.7 per cent, 64.5 per cent, and 66.5 per cent, respectively, of the total value of all products of the industry in the state. The total value of products for the industry increased \$67,069,691, or 135.5 per cent, during this five-year period. The value of wheat flour increased \$45,845,640, or 143.7 per cent. The increase in the quantity of wheat flour, however, was much smaller, being 617,935 barrels, or 9.3 per cent. It is noticeable throughout the table that although large increases predominate as a rule in values in 1919 compared with 1914, due to the increased prices of commodities in 1919, the increases in quantity are small, and in a number of instances decided decreases are shown.

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

	1919	1914	1909
Total value.....	\$116,562,915	\$49,493,224	\$51,110,681
Wheat flour:			
Barrels.....	7,261,918	6,043,083	6,386,547
Value.....	\$77,749,717	\$31,904,077	\$33,102,494
Rye flour:			
Barrels.....	137,712	146,432	116,925
Value.....	\$1,109,906	\$636,985	\$539,732
Buckwheat flour:			
Pounds.....	850,570	736,805	1,802,689
Value.....	\$50,103	\$24,237	\$54,842
Barley meal:			
Pounds.....	360,000		110,400
Value.....	\$14,754		\$1,560
Corn meal and corn flour:			
Barrels.....	552,385	600,515	738,864
Value.....	\$4,045,507	\$1,042,702	\$2,108,824
Hominy and grits:			
Pounds.....	101,199,037	154,209,222	221,177,853
Value.....	\$3,306,491	\$2,293,856	\$3,224,171
Bran and middlings:			
Tons.....	284,744	270,754	
Value.....	\$12,857,317	\$6,184,864	\$75,852
Feed and offal:			
Tons.....	270,762	242,201	\$10,766,280
Value.....	\$10,050,649	\$5,993,094	
Oatmeal:			
Pounds.....	17,143,275		
Value.....	\$603,042		
Breakfast foods:			
Pounds.....	1,601,566		
Value.....	\$108,496		
All other cereal products, value.....	\$17,730	\$157,097	\$268,946
All other products, value.....	\$49,143	\$357,312	\$93,832

Petroleum, refining (Table 27).—This table presents the statistics for the petroleum-refining industry in Illinois in 1919, represented by 13 establishments, with products valued at \$64,548,642, as compared with 9 establishments and products valued at \$16,892,727 in 1914, an increase in value of products of 282.1 per cent. The state ranked ninth in this industry in 1919.

The total production of refined oils and greases, the same including gasoline and the other lighter products, fuel oils, illuminating oils, lubricating oils and greases, and asphaltic road oils, was 12,103,606 barrels of 50 gallons, valued at \$61,790,464, of which the fuel oils constituted in quantity 44.9 per cent, gasoline and the lighter oils 38 per cent, illuminating oils 11.7 per cent, and lubricating oils and greases and asphaltic road oils 5.4 per cent.



TABLE 27.—PETROLEUM, REFINING: 1919.

	1919
<b>MATERIALS.</b>	
Total cost.....	\$54,053,358
Crude petroleum:	
Barrels (42 gallons).....	12,527,323
Cost.....	\$34,776,595
Distillates purchased and rerun:	
Barrels.....	2,055,211
Cost.....	\$6,236,461
Casing-head gasoline purchased:	
Barrels.....	989,068
Cost.....	\$7,711,821
Chemicals and filtering material, cost.....	\$400,212
Containers and materials therefor, cost.....	\$627,283
All other materials, cost.....	\$4,300,986
<b>PRODUCTS.</b>	
Total value.....	\$64,548,642
Naphthas and lighter products:	
Gasoline—	
Gallons.....	227,116,664
Value.....	\$30,127,356
Naphtha, benzine, etc.—	
Gallons.....	2,726,331
Value.....	\$413,486
Illuminating oils:	
Gallons.....	71,071,215
Value.....	\$6,338,908
Fuel oils:	
Distillates—	
Gallons.....	10,677,977
Value.....	\$489,958
Gas oils—	
Gallons.....	47,747,510
Value.....	\$2,761,273
Residual fuel oils—	
Gallons.....	213,396,619
Value.....	\$9,515,514
Lubricating oils and greases:	
Gallons.....	23,409,468
Value.....	\$2,449,325
Liquid asphaltic road oils:	
Gallons.....	9,039,020
Value.....	\$404,644
Paraffin wax:	
Gallons.....	2,803,707
Value.....	\$1,244,020
Other refinery products, value.....	\$1,208,778
All other products, value.....	\$304,471
<b>EQUIPMENT (CAPACITY, GALLONS).</b>	
Still:	
Steam—	
Number.....	40
Capacity.....	1,268,000
Fire—	
Number.....	147
Capacity.....	4,125,000
Pressure—	
Number.....	120
Capacity.....	1,365,000
Storage tanks for:	
Crude petroleum—	
Number.....	208
Capacity.....	118,430,000
Refined petroleum—	
Number.....	273
Capacity.....	54,916,000
Fuel oils—	
Number.....	101
Capacity.....	40,768,000
Other—	
Number.....	400
Capacity.....	20,673,000

Leather, tanned, curried, and finished (Table 28).—This table gives for 1919, 1914, and 1909 the quantity and cost of the different kinds of materials used, and the quantity and value of the principal products reported for this industry.

There was an increase in the total cost of materials used in 1919, as compared with 1914, of \$28,734,801, or 206.5 per cent. During this five-year period the number of cattle hides treated increased 1,131,568, or 126.8 per cent, and their cost \$16,982,921, or 293.5 per cent. The use of calf and kip skins has steadily

declined; there were 1,872,298, or 62.2 per cent, less treated in 1919 than in 1909, while, on the other hand, their cost has materially increased. The number of sheep and lamb skins treated, also shows a falling off. The loss was slight compared with 1914, but a third less than was reported in 1909. The cost of all other raw stock, comprising horse and buffalo hides, goat, kid, colt, cabretta, pig, kangaroo, and deer skins etc., shows decided increases from census to census.

There was an increase in the total value of products in 1919, as compared with 1914, of \$42,814,403, or 244.5 per cent. Cattle side upper, the most important leather produced in the state in 1919, constituted 50.2 per cent of the total value of products and, compared with 1914, shows an increase in quantity of 2,451,387 sides, or 204.9 per cent, and \$25,057,984, or 480.3 per cent, in value. There was a marked falling off in the number of calf and kip skins tanned and finished, but an increase of 207,977 in the number of sheep and lamb skins. Notwithstanding the decrease in quantity of the former product, however, the value of each of these two classes of products shows conspicuous increases for the five-year period, 1914-1919. "All other leather" includes patent, glove, horse, harness, finished splits, and case, bag, and strap leather, etc.

TABLE 28.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$42,652,233	\$13,017,432	\$12,130,600
Cattle hides:			
Number.....	2,023,824	892,256	663,928
Cost.....	\$22,769,561	\$5,786,640	\$3,859,429
Calf and kip skins:			
Number.....	1,136,318	1,885,276	3,008,616
Cost.....	\$5,059,289	\$4,399,144	\$5,532,850
Sheep and lamb skins:			
Number.....	1,005,368	1,069,914	1,562,628
Cost.....	\$1,365,676	\$774,399	\$922,400
All other raw stock, cost.....	\$6,129,193	\$1,221,598	\$436,138
Fuel and rent of power, cost.....	\$512,322	\$160,482	\$151,707
All other materials, cost.....	\$5,916,192	\$1,675,169	\$1,228,019
<b>PRODUCTS.</b>			
Total value.....	\$60,323,659	\$17,500,256	\$14,911,782
Leather:			
Cattle side upper (other than patent)—			
Sides.....	3,647,664	1,196,277	932,486
Value.....	\$30,274,097	\$5,216,713	\$3,058,427
Calf and kip skins—			
Number.....	896,849	1,868,815	2,926,674
Value.....	\$6,756,262	\$5,053,430	\$7,071,221
Sheep and lamb skins—			
Number.....	891,955	683,978	1,142,669
Value.....	\$1,448,061	\$437,609	\$716,605
All other, value.....	\$18,341,408	\$5,123,801	\$3,487,921
All other products, value.....	\$2,843,300	\$776,404	\$575,600
Work on materials for others, value.....	\$659,931	\$1,299	\$2,003

Butter, cheese, and condensed milk (Table 29).—This table presents the quantities and values of the principal products of the industry for 1919, 1914, and 1909. Illinois ranked sixth in 1919 among the states in the value of butter, cheese, and condensed-milk factory products combined, and third in the manufacture of



condensed and evaporated milk, being exceeded in the manufacture of this latter product by New York and Wisconsin, in the order named. At each of the three censuses, condensed and evaporated milk was the product of chief value, forming 47.5 per cent of the total value of all products for the industry in 1919, as compared with 51.7 per cent in 1914, and 47.4 per cent in 1909. Butter formed 42.8 per cent of the total in 1919, 36.5 per cent in 1914, and 39.8 per cent in 1909.

During the five-year period 1914 to 1919, there was an increase of \$36,506,051, or 167.5 per cent, in the total value of products for the industry in the state. Condensed milk, although showing an increase of only 6.2 per cent in quantity during the five-year period, increased 145.8 per cent in value. Similarly, butter increased 213.1 per cent in value and 62.9 per cent in quantity, and cheese, although increasing 88.7 per cent in value, decreased 23.9 per cent in quantity.

TABLE 29.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$58,208,271	\$21,702,220	\$17,708,278
Butter:			
Pounds.....	44,527,933	27,332,293	24,570,070
Value.....	\$24,928,641	\$7,962,297	\$7,088,414
Packed solid—			
Pounds.....	10,906,404	15,404,541	14,767,503
Value.....	\$10,937,917	\$4,509,095	\$4,215,191
Prints or rolls—			
Pounds.....	24,621,439	11,927,752	9,893,473
Value.....	\$13,990,724	\$3,453,202	\$2,873,223
Cream sold:			
Pounds.....	4,326,026	11,060,350	11,490,133
Value.....	\$915,597	\$1,073,090	\$1,274,790
Cheese:			
Pounds.....	4,851,054	6,377,947	4,709,235
Value.....	\$1,344,010	\$712,842	\$520,480
Full cream—			
Pounds.....	2,464,840	4,090,100	2,910,897
Value.....	\$930,091	\$600,024	\$308,397
Other kinds <sup>2</sup> —			
Pounds.....	2,386,205	2,310,432	1,879,338
Value.....	\$403,810	\$122,818	\$122,080
Condensed and evaporated milk:			
Pounds.....	177,792,214	167,425,094	114,500,748
Value.....	\$27,667,488	\$11,250,447	\$4,437,627
Sweetened—			
Pounds.....	70,370,033	58,857,984	48,240,252
Value.....	\$13,562,542	\$4,937,077	\$4,408,085
Unsweetened—			
Pounds.....	7,615,164	51,823,055	66,290,490
Value.....	\$1,093,047	\$3,052,538	\$3,989,542
Evaporated—			
Pounds.....	99,807,017	56,744,055	50,000,000
Value.....	\$13,011,899	\$3,266,832	\$3,000,000
All other butter, cheese, and condensed-milk factory products, value.....	\$2,185,439	\$600,162	\$308,754
All other products, value.....	\$1,256,286	\$96,782	\$70,201

<sup>1</sup>In addition, in 1919, butter valued at \$204,292 was manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

<sup>2</sup>Includes "Part cream," "Skimmed," and "Other kinds" of cheese.

Paints and varnishes (Table 30).—This table gives details as to the products of the paint and varnish industries for 1919 and 1914. The statistics represent 83 establishments in 1919, 50 primarily engaged in the manufacture of paints and 33 in the manufacture of varnishes, as compared with 72 in 1914, 40 manufacturing paints and 32 varnishes.

From 1914 to 1919 the total value of products of the industry as a whole shows an increase of \$30,298,-

852, or 123.7 per cent. Of this increase, \$24,018,925 was for paints and \$6,279,927 for varnishes, increases of 126.1 per cent and 115.3 per cent, respectively. The proportionate value of the two products shows but slight variation for the two censuses.

TABLE 30.—PAINTS AND VARNISHES: 1919 AND 1914.

	1919	1914
Products, total value.....	\$54,787,301	\$24,488,449
The classified industries:		
Paints.....	\$43,061,694	\$10,042,769
Varnishes.....	\$11,725,607	\$5,445,680
Colors (pigments):		
White lead, dry—		
For sale—		
Pounds.....	18,400,906	16,783,007
Value.....	\$1,597,657	\$950,147
Made and consumed, pounds.....	49,646,836	(?)
Other dry colors—		
Pounds.....	38,141,286	5,564,451
Value.....	\$2,577,340	\$816,532
Paints.....	\$20,738,866	\$14,239,194
In paste form, ground in oil—		
White lead—		
Pounds.....	56,004,000	73,019,593
Value.....	\$5,977,095	\$5,000,591
All other—		
Pounds.....	21,360,047	20,271,856
Value.....	\$2,596,529	\$1,419,667
In oil, already mixed for use—		
Gallons.....	10,780,810	8,467,040
Value.....	\$21,165,242	\$7,818,936
Varnishes and japses:		
Oleoresinous varnishes—		
Gallons.....	4,504,475	2,762,458
Value.....	\$5,134,512	\$2,775,662
Spirit varnishes, not turpentine—		
Gallons.....	226,408	608,528
Value.....	\$614,215	\$938,934
Damar and similar turpentine and benzine varnishes—		
Gallons.....	1,282,830	680,592
Value.....	\$2,374,486	\$738,051
Drying japses and dryers—		
Gallons.....	822,984	759,252
Value.....	\$678,713	\$367,033
Baking japses and lacquers—		
Gallons.....	606,086	201,410
Value.....	\$722,503	\$156,227
Water paints and kalsomine:		
Dry or in paste—		
Pounds.....	12,420,067	11,304,884
Value.....	\$835,785	\$409,069
Fillers:		
Liquid—		
Gallons.....	569,392	
Value.....	\$624,857	
In paste—		
Pounds.....	1,620,610	
Value.....	\$151,336	
Putty—		
Pounds.....	8,457,881	
Value.....	\$319,880	
All other products, value.....	\$9,417,242	

<sup>1</sup>In addition, products to the value of \$8,062,947, chiefly lead and zinc oxides and paints, were produced in 1919 as subsidiary products by establishments engaged primarily in the manufacture of other commodities.

<sup>2</sup>Not reported.

Engines, steam, gas, and water (Table 31).—This table shows the number, horsepower capacity, and value of the various types of engines manufactured in the state during the years 1919 and 1914.

A remarkable development is shown in the industry during the period 1914 to 1919, a condition largely attributable to the results of the World War. The total value of all products increased \$50,841,898, or 797.6 per cent. The number of engines built increased by 46,859, or 126.4 per cent, and the horsepower capacity increased by 1,151,728, or 421.2 per cent.



TABLE 31.—ENGINES, STEAM, GAS, AND WATER: 1919 AND 1914.

	Cen- sus year.	NUMBER BY INDICATED HORSEPOWER CAPACITY.					Indi- cated horse- power capa- city.	Value.
		Under 10.	10 but under 50.	50 but under 100.	100 but under 500.	500 and over.		
Total.....	1919	29,169	53,414	969	358	16	1,425,145	\$57,216,364
	1914	30,404	6,202	349	104	8	273,417	6,374,406
The engine industry...	1919	21,298	45,445	845	307	16	1,165,365	45,741,267
	1914	25,157	2,220	276	76	4	145,570	3,948,730
Subsidiary products from other industries.	1919	7,871	7,969	124	51	—	259,780	11,475,097
	1914	5,247	3,982	73	28	4	127,847	2,425,736
Steam engines.....	1919	372	298	6	40	16	34,266	970,793
	1914	385	91	72	99	8	35,500	324,935
Internal-combus- tion engines.	1919	26,334	22,174	35	3	—	483,255	8,946,770
	1914	29,999	4,945	116	4	—	204,487	3,030,634
Automobile.....	1919	—	21,130	—	—	—	396,201	6,393,288
	1914	2,275	3,001	—	—	—	88,492	661,203
Marine.....	1919	108	69	7	—	—	2,427	61,092
	1914	506	125	19	4	—	5,966	153,331
Stationary.....	1919	24,445	975	28	3	—	81,005	2,383,100
	1914	27,188	1,816	97	—	—	110,029	2,216,100
Other.....	1919	1,781	—	—	—	—	3,562	108,390
	1914	—	—	—	—	—	( <sup>1</sup> )	( <sup>1</sup> )
Traction engines, not locomotives.	1919	2,463	30,942	928	315	—	967,624	34,554,193
	1914	50	1,166	161	1	—	33,430	2,048,826
Other engines and parts.	1919	—	—	—	—	—	22,124,699	290,678
	1914	—	—	—	—	—	—	—
Other foundry and machine- shop products.	1919	—	—	—	—	—	—	5,260,007
	1914	—	—	—	—	—	—	128,571
All other products.	1919	—	—	—	—	—	—	5,359,902
	1914	—	—	—	—	—	—	516,822

<sup>1</sup> Included in "Stationary."<sup>2</sup> Includes electric locomotives built by firms engaged primarily in the manufacture of traction engines. Figures can not be shown separately without disclosing individual operations.

Druggists' preparations, patent medicines and compounds, and perfumery and cosmetics (Table 32).—This table gives the products statistics for these industries in 1919. The industries constituting the group represent 314 establishments—druggists' preparations 31, patent medicines and compounds 208, and perfumery and cosmetics 75—with products aggregating in value \$39,059,337, this amount being exclusive of druggists' preparations, patent medicines and compounds, and perfumery and cosmetics, reported by establishments engaged primarily in the manufacture of other commodities.

TABLE 32.—DRUGGISTS' PREPARATIONS, PATENT MEDICINES AND COMPOUNDS, AND PERFUMERY AND COSMETICS: 1919.

	1919
Products, total value.....	\$41,714,235
The classified industries (all products):	
Druggists' preparations.....	4,888,548
Patent medicines and compounds.....	25,395,228
Perfumery and cosmetics.....	8,775,561
Subsidiary products from other industries.....	2,654,898
Classified products.	
Biological products (serums, vaccines, toxins, etc.) and synthetic preparations.....	464,275
Patent and proprietary medicines.....	15,646,594
Patent and proprietary compounds.....	7,859,460
Patent and proprietary preparations, fluid extracts, medicinal sirups, and other liquid preparations (not patent and proprietary).....	1,924,771
Patent and proprietary tablets, powders, etc. (not patent and proprietary).....	4,461,279
Pills, tablets, cosmetics, and toilet preparations.....	10,095,574
Perfumery products.....	1,262,282
All other products.....	—

Comparative statistics for 1914 are, for the group, 363 establishments with products valued at \$15,031,507, distributed as follows: Druggists' preparations, 38 establishments, \$2,000,494; patent medicines and compounds, 265 establishments, \$11,470,734; and perfumery and cosmetics, 60 establishments, \$1,560,279. The figures show an increase of 259.8 per cent in value of products for the group, 144.4 per cent for druggists' preparations, 121.4 per cent for patent medicines and compounds, and 462.4 per cent for perfumery and cosmetics.

Soap (Table 33).—This table shows the quantities and values of the principal materials and the products of the soap industry in the state in 1919, 1914, and 1909. The table shows a large production of soap by establishments engaged primarily in the manufacture of other products, for which the statistics of materials used are not available.

TABLE 33.—SOAP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost <sup>1</sup> .....	\$19,483,908	\$15,252,893	\$13,948,160
Animal fats, tallow, grease, etc:			
Pounds.....	63,456,414	77,759,488	54,546,522
Cost.....	\$7,578,897	\$4,736,142	\$3,225,011
Cocoon and palm-kernel oil:			
Gallons.....	2,981,026	2,550,332	2,174,700
Cost.....	\$3,508,587	\$1,903,059	\$1,084,613
Cottonseed oil:			
Gallons.....	512,623	1,027,981	1,565,800
Cost.....	\$719,360	\$917,258	\$1,276,624
Other vegetable oils:			
Gallons.....	744,738	( <sup>2</sup> )	( <sup>2</sup> )
Cost.....	\$865,188	( <sup>2</sup> )	( <sup>2</sup> )
Resin:			
Pounds.....	11,101,057	16,272,793	18,272,898
Cost.....	\$684,433	\$419,697	\$423,829
Caustic soda:			
Tons (2,000 lbs.).....	9,082	9,719	8,022
Cost.....	\$487,439	\$304,430	\$335,312
Soda ash:			
Tons (2,000 lbs.).....	9,205	14,984	15,640
Cost.....	\$265,733	\$216,964	\$285,647
All other materials, including fuel and rent of power, cost.....	\$6,374,271	\$6,755,353	\$8,014,124
PRODUCTS.			
Total value.....	\$39,458,378	\$24,919,259	\$20,212,599
The soap industry.....	\$25,733,832	\$21,420,035	\$20,180,799
Subsidiary soap products from other industries.....	\$13,724,546	\$3,499,224	\$31,710
Hard soaps:			
Quantity, pounds.....	406,661,000	337,880,000	254,017,000
Tallow soap.....	96,687,000	134,020,000	158,717,000
Olefin soap.....	13,384,000	2,763,000	2,070,000
Foots soap.....	5,281,000	6,934,000	4,050,000
Toilet soaps.....	60,149,000	40,514,000	32,888,000
Dye soaps.....	887,000	( <sup>3</sup> )	( <sup>3</sup> )
Powdered soaps (sold as such) <sup>4</sup> .....	121,798,000	71,702,000	50,009,000
Soap chips.....	47,756,000	27,972,000	283,000
Other hard soaps.....	70,719,000	47,975,000	—
Value.....	\$34,892,993	\$17,904,726	\$13,066,420
Soft soap:			
Pounds.....	7,498,000	8,329,000	10,292,000
Value.....	\$538,516	\$205,769	\$216,031
Liquid soap:			
Pounds.....	1,289,000	( <sup>3</sup> )	( <sup>3</sup> )
Value.....	\$145,008	( <sup>3</sup> )	( <sup>3</sup> )
Special soap articles, value.....	\$229,931	\$111,782	\$36,002
Glycerin:			
Crude, sold as such—			
Pounds.....	1,067,916	1,197,850	—
Value.....	\$189,580	\$217,737	6,256,607
Refined—			
Pounds.....	5,885,827	5,242,896	\$876,871
Value.....	\$1,205,012	\$1,124,704	—
All other products, value.....	\$2,196,738	\$5,354,551	\$6,017,185

<sup>1</sup> Does not include materials consumed in soap manufacture by establishments making soap as a subsidiary product.<sup>2</sup> Included with "All other materials."<sup>3</sup> Not reported separately.<sup>4</sup> Includes 12,451,900 pounds reported as "scouring powders and cleansers," in 1919, valued at \$540,898.



For the census period 1909 to 1914, the increase in quantity production was 31 per cent, and in value 36.3 per cent, while the production in 1919 as compared with 1914 shows an increase of 20 per cent in quantity and 96.4 per cent in value. This refers to hard, soft, and liquid soaps.

**Boots and shoes** (Tables 34 and 35).—Table 34 gives the number of pairs and value of boots, shoes, slippers, etc., manufactured in the state of Illinois in 1919, 1914, and 1909.

The number of pairs of boots and shoes reported in 1919 for women, misses, and children in the state shows a large increase over the number reported in 1914 and 1909. Other kinds, including slippers, etc., show a decrease. The gain in the state for all kinds of footwear in 1919 was 2,345,850 pairs, or 28.3 per cent, over 1914 and about the same percentage of gain over 1909. Aggregate value of products increased by \$22,510,757, or 133.3 per cent, in 1919, compared with 1914, and by \$24,290,894, or 160.7 per cent, compared with 1909. Values of the different classes of footwear were not reported in 1909.

TABLE 34.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

CLASS.	NUMBER OF PAIRS AND VALUE.		
	1919	1914	1909
Aggregate value.....	\$39,402,383	\$16,891,026	\$15,111,489
Boots and shoes:			
Total number of pairs.....	10,145,473	7,370,553	6,803,731
Total value.....	\$38,242,022	\$10,123,766	
Men's—			
Number of pairs.....	3,576,329	3,034,020	4,018,016
Value.....	\$19,055,921	\$10,725,054	
Boys' and youths—			
Number of pairs.....	904,153	1,058,239	1,270,520
Value.....	\$2,780,808	\$1,002,375	
Women's, misses', and children's—			
Number of pairs.....	3,013,743	1,025,806	1,034,470
Value.....	\$19,385,095	\$2,844,397	
Slippers:			
Total number of pairs.....	23,880	240,835	274,007
Total value.....	\$37,460	\$317,600	
Men's, boys', and youths—			
Number of pairs.....	13,380	49,140	112,000
Value.....	\$21,475	\$49,732	
Women's, misses', and children's—			
Number of pairs.....	10,500	197,005	161,797
Value.....	\$16,075	\$207,834	
Infants' shoes and slippers:			
Number of pairs.....	330,986	545,160	1,002,277
Value.....	\$162,040	\$262,485	
All other footwear:			
Number of pairs.....	138,170	130,102	125,100
Value.....	\$280,770	\$31,065	
All other products, including amount received for work done for others, value....	\$670,583	\$166,154	

<sup>1</sup> Total value only, reported in 1909.

Table 35 gives the number of pairs of boots and shoes, and all other footwear, classified according to method of manufacture.

Over 90 per cent of the boots and shoes manufactured in the state of Illinois were of the welted and McKay types. About the same proportions of each type were produced, there being a few more welted reported than McKay. Turned and wood or metal fastened types are combined, to avoid disclosure of the operations of individual establishments. They formed but 8 per cent of the total footwear produced in the state in 1919.

TABLE 35.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

CLASS.	Census year.	Total.	Welted.	McKay.	Turned and wood or metal fastened.
Boots and shoes.....	1919 1914	10,145,473 7,370,553	4,803,718 3,715,554	4,439,710 3,454,942	\$12,145 200,057
Men's.....	1919 1914	3,576,329 3,034,020	3,297,320 3,212,273	1,270,009 540,674	181,082
Boys' and youths.....	1919 1914	904,153 1,058,239	356,586 15,710	1,547,567 1,042,529	
Women's, misses', and children's.....	1919 1914	5,665,091 2,377,685	1,239,812 487,571	3,613,134 1,871,739	\$12,145 18,375
All other footwear.....	1919 1914	493,036 922,106	277,738	240,770 325,531	252,266 318,837

<sup>1</sup> Includes "Turned and wood or metal fastened." <sup>2</sup> Includes "Welted."

**Musical instruments, pianos and organs and materials** (Table 36).—This table shows for 1919, 1914, and 1909 the number and value of the different kinds of pianos and organs manufactured, and the value of the organ and piano materials made by establishments not engaged primarily in the production of complete instruments.

TABLE 36.—MUSICAL INSTRUMENTS, PIANOS AND ORGANS AND MATERIALS: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value.....	\$36,255,055	\$19,705,601	\$19,176,328
Pianos:			
Upright—			
Without player—			
Number.....	93,683	93,626	108,283
Value.....	\$25,034,422	\$14,562,820	\$14,783,394
With player—			
Number.....	36,515	74,023	103,423
Value.....	\$7,415,565	\$9,588,328	\$13,226,811
Grand—			
Baby—			
Without player <sup>2</sup> —			
Number.....	1,497	3,733	3,380
Value.....	\$804,186	\$285,703	\$136,923
Parlor—			
Without player <sup>4</sup> —			
Number.....	474		
Value.....	\$215,680		
Concert—			
Without player—			
Number.....	956		
Value.....	\$273,023		
Organs:			
Number.....	8,562	13,095	28,798
Value.....	\$1,493,598	\$1,448,429	\$1,281,415
Pipe—			
Number.....	186	589	154
Value.....	\$632,792	\$908,386	\$307,032
Reed—			
Number.....	7,765	12,506	28,644
Value.....	\$434,760	\$540,043	\$973,783
Orchestrions—			
Number.....	631	( <sup>5</sup> )	( <sup>5</sup> )
Value.....	\$426,046	( <sup>5</sup> )	( <sup>5</sup> )
Player attachments and actions, value.....	\$255,267		
Parts, materials, and supplies, value.....	\$4,760,733	\$2,909,667	\$2,820,575
All other products, value.....	\$4,711,035	\$784,685	\$290,944

<sup>1</sup> Includes "player reproducing" in 1919.

<sup>2</sup> Includes "baby player" and "baby reproducing" in 1919.

<sup>3</sup> Includes "parlor" and "concert grand."

<sup>4</sup> Includes "parlor player" and "parlor reproducing" in 1919.

<sup>5</sup> Includes "automatic" and "electric" in 1919.

<sup>6</sup> Not shown separately in 1914 and 1909.

From 1914 to 1919 the industry as a whole shows an increase in value of products of \$16,549,454, or 84 per cent. The manufacture of pianos during this five-year period, although showing a gain of only one-tenth of 1 per cent in number, shows an increase of \$10,471,602, or 71.9 per cent, in their value. The increase in the value of pianos is wholly in pianos with player.



Except for the high prices prevailing in 1919, as compared with 1914, the organ industry would show a great loss in value of products, in place of an increase of \$45,169, or 3.1 per cent. The number of organs manufactured decreased 4,533, or 34.6 per cent.

**Chemicals (Table 37).**—This table presents the statistics of products for the chemical industries for 1919. The production, valued at \$41,836,545, comprises all products reported by 45 establishments engaged primarily in the manufacture of chemicals, including coal-tar products and sulphuric, nitric, and mixed acids, aggregating \$29,192,755, and chemicals to the amount of \$12,643,790 manufactured by establishments included under other industry classifications. The item of "Other chemicals" includes a large production of coal-tar origin.

In 1914 there were 28 establishments in the classified industries, including 26 with products valued at \$8,618,118 and 2 establishments engaged primarily in the manufacture of sulphuric, nitric, and mixed acids, for which products were not reported separately. The output of the 26 establishments in 1914 is comparable with 42 establishments and products valued at \$24,136,171 in 1919. Thus an increase of 62 per cent in number of establishments and 180.1 per cent in value of products is shown in the 1919 figures.

TABLE 37.—CHEMICAL INDUSTRIES: 1919.

	1919
Products, total value.....	\$41,836,545
The classified industries:	
Chemicals.....	22,060,803
Coal-tar products.....	2,075,308
Sulphuric, nitric, and mixed acids.....	5,056,584
Subsidiary chemical products from other industries.....	12,643,790
Acids.....	8,242,776
Sodas, sodium and compounds.....	1,837,596
Alums, aluminum and compounds.....	10,734,636
Compressed and liquefied gases.....	1,397,290
Other chemicals.....	18,937,985
All other products.....	696,262

**Laundries (Table 38).**—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 38, however, summarizes the statistics for such laundries in the state of Illinois for 1919 and 1914.

TABLE 38.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919.
	1919	1914	
Number of establishments.....	470	461	2.0
Persons engaged.....	12,189	12,470	-2.3
Proprietors and firm members.....	405	437	-7.3
Salaried employees.....	1,205	1,029	17.1
Wage earners (average number).....	10,579	11,004	-3.9
Primary horsepower.....	14,833	13,472	10.1
Capital.....	\$12,627,971	\$8,401,995	50.3
Salaries and wages.....	9,983,147	6,024,805	50.7
Salaries.....	2,087,158	1,150,466	81.4
Wages.....	7,895,989	5,474,339	44.2
Paid for contract work.....	173,575	82,215	111.1
Rent and taxes.....	619,265	378,047	63.8
Cost of materials.....	4,942,918	2,638,683	87.3
Amount received for work done.....	20,606,032	12,846,432	60.4

<sup>1</sup> A minus sign (-) denotes decrease.

**Dyeing and cleaning (Table 39).**—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments have not been included in the general tables nor in the totals for manufacturing industries for censuses since 1900.

TABLE 39.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	159
Persons engaged.....	2,119
Proprietors and firm members.....	133
Salaried employees.....	353
Wage earners (average number).....	1,633
Primary horsepower.....	2,165
Capital.....	\$2,601,186
Salaries and wages.....	2,421,715
Salaries.....	612,610
Wages.....	1,809,096
Paid for contract work.....	25,495
Rent and taxes.....	198,289
Cost of materials.....	1,249,966
Amount received for work done.....	5,298,935

**Custom sawmills and custom gristmills (Tables 40 and 41).**—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 40 and 41, 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 40.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	98	123	-20.3
Persons engaged.....	164	305	-46.2
Proprietors and firm members.....	125	149	-16.1
Salaried employees.....	1	—	—
Wage earners (average number).....	38	156	-75.6
Primary horsepower.....	1,841	2,244	-18.0
Capital.....	\$127,332	\$139,731	-8.9
Salaries and wages.....	26,808	38,784	-30.7
Salaries.....	383	—	—
Wages.....	26,425	38,784	-31.7
Rent and taxes.....	1,106	1,040	6.3
Cost of materials.....	18,042	2,699	568.5
Amount received for work done.....	82,296	117,443	-29.9

<sup>1</sup> A minus sign (-) denotes decrease.

TABLE 41.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	120	157	-23.6
Persons engaged.....	195	311	-37.3
Proprietors and firm members.....	148	206	-28.2
Salaried employees.....	2	4	—
Wage earners (average number).....	45	101	-55.4
Primary horsepower.....	3,816	5,577	-31.6
Capital.....	\$781,893	\$628,452	24.4
Salaries and wages.....	43,132	42,296	2.0
Salaries.....	1,436	1,009	-24.8
Wages.....	41,696	40,887	3.2
Rent and taxes.....	9,827	5,034	65.6
Cost of materials.....	2,618,972	2,062,502	27.0
Value of products.....	3,193,058	2,340,542	36.4

<sup>1</sup> A minus sign (-) denotes decrease; percentage omitted where base is less than 100.

<sup>2</sup> Includes estimate of all grain ground.



## GENERAL TABLES.

Table 42 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 Chicago, East St. Louis, Peoria, Rockford, and Springfield, and for each of the cities in the state having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

Table 43 presents, for 1919, for the state as a whole and for Chicago, East St. Louis, Peoria, Rockford, and Springfield 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 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	18,593	653,114	1,690,918	801,087	3,488,270	5,425,245	Cars, steam-railroad, not including operations of railroad companies.	1919	10	13,775	32,420	20,340	82,428	125,218
	1914	18,388	500,943	1,305,930	310,910	1,340,183	2,247,323		1914	23	18,000	37,622	15,080	40,420	61,316
	1909	18,026	465,709	1,013,071	273,319	1,160,027	1,910,277		1909	28	10,945	18,051	7,824	15,330	27,001
Agricultural implements..	1919	68	22,548	51,608	28,342	65,160	128,285	Cash registers and calcu- lating machines.	1919	11	1,855	1,383	2,281	1,554	7,354
	1914	73	19,556	50,044	15,608	32,878	65,338		1914	10	514	587	350	1,500	1,308
	1909	79	10,240	38,040	11,718	24,821	57,208	Cement.....	1919	5	1,123	24,700	1,463	3,975	8,283
Automobiles, including bodies and parts.	1919	229	8,805	15,098	11,139	73,054	104,883		1914	6	1,407	23,986	1,184	2,850	6,468
	1914	91	2,545	3,421	1,946	6,288	11,018		1909	6	1,395	15,270	855	1,619	4,088
	1909	65	2,382	1,786	1,653	3,970	7,154	Chemicals.....	1919	33	3,001	23,303	3,837	12,003	22,061
Babbitt metal and solder..	1919	12	728	3,017	1,007	22,121	25,800		1914	23	1,082	8,590	1,164	5,360	8,618
	1914	12	203	1,117	155	4,296	5,143		1909	22	843	5,917	536	2,915	4,683
	1909	10	183	988	109	3,374	4,146	Clothing, men's, including shirts.	1919	532	33,738	6,657	44,630	93,609	201,816
Bags, other than paper, not including bags made in paper mills.	1919	9	381	349	286	5,400	7,934		1914	604	35,119	5,142	20,019	41,310	80,144
	1914	9	275	292	141	2,326	2,876		1909	715	30,152	3,720	16,580	45,228	80,473
	1909	6	189	157	175	685	965	Clothing, women's.....	1919	308	10,278	2,092	11,487	41,136	68,044
Baking powders and yeast.	1919	14	922	6,058	943	8,040	15,682		1914	241	8,113	1,163	4,530	11,219	20,751
	1914	19	628	3,022	383	3,467	8,455		1909	221	6,151	804	3,162	9,214	16,635
	1909	24	657	1,189	340	3,201	7,632	Coffee and spice, roasting and grinding.	1919	32	1,205	2,389	1,210	20,692	38,189
Blackening and cleansing and polishing prepara- tions.	1919	86	528	550	512	3,230	6,287		1914	34	1,193	3,152	576	17,094	22,045
	1914	73	256	329	141	719	1,304		1909	35	1,018	2,700	525	15,114	19,751
	1909	58	236	336	123	569	1,230	Coffins, burial cases, and undertakers' goods.	1919	25	1,016	1,568	973	2,613	5,787
Boots and shoes, including outstock and findings.	1919	63	8,421	6,078	6,499	30,430	46,389		1914	21	802	1,359	527	1,307	2,705
	1914	57	6,397	3,434	3,373	12,141	18,407		1909	21	732	1,071	406	982	2,260
	1909	53	5,792	2,770	3,143	10,869	16,755	Coke, not including gas- house coke.	1919	4	1,390	9,015	2,400	12,628	16,837
Boxes, paper and other, not elsewhere specified.	1919	87	5,923	8,195	5,171	15,556	28,893		1914	3	1,178	13,054	942	5,828	7,840
	1914	80	4,580	5,600	2,158	5,173	9,741	Confectionery and ice cream.	1919	462	8,770	14,379	8,367	41,096	73,097
	1909	61	4,085	4,143	1,501	3,012	6,350		1914	332	5,820	10,091	2,871	14,005	27,061
Brass, bronze, and copper products.	1919	90	3,174	5,847	3,856	15,090	25,107	Cooperage and wooden goods, not elsewhere specified.	1919	55	1,617	4,003	1,940	8,081	12,397
	1914	75	1,502	2,698	1,109	5,240	7,570		1914	61	1,921	4,730	1,096	4,596	6,598
	1909	79	1,688	1,850	1,136	4,148	6,842		1909	80	2,388	5,247	1,127	4,470	6,611
Bread and other bakery products.	1919	2,345	12,418	13,750	14,383	61,597	102,604	Copper, tin, and sheet- iron products. <sup>2</sup>	1919	441	16,609	12,692	11,884	39,790	65,257
	1914	2,278	10,404	9,465	6,828	23,639	45,250		1914	508	7,445	7,340	4,853	13,825	24,815
	1909	2,009	8,611	5,618	5,495	21,606	36,118		1909	483	7,473	5,510	4,315	13,193	22,823
Brick, tile, pottery, and other clay products.	1919	158	6,270	41,305	7,094	5,219	19,416	Cordials and flavoring syrups.	1919	10	81	820	132	4,026	6,063
	1914	235	8,610	43,773	6,134	3,959	14,222		1914	9	42	659	24	809	2,016
	1909	379	9,731	44,008	6,271	3,617	14,380	Corsets.....	1919	22	2,273	484	1,534	4,703	9,232
Butter, cheese, and con- densed milk.	1919	223	1,901	8,467	2,104	49,619	58,208		1914	19	1,074	341	715	2,063	3,979
	1914	207	1,755	6,184	1,070	18,236	21,792		1909	16	1,502	541	625	1,195	2,711
	1909	295	1,732	6,753	942	14,267	17,798	Cutlery and tools, not else- where specified.	1919	132	3,062	7,791	4,815	5,711	15,802
Canning and preserving <sup>1</sup> ..	1919	132	3,680	8,299	3,178	17,833	28,341		1914	81	1,631	4,082	1,032	1,777	3,297
	1914	117	2,580	7,078	1,108	6,680	10,121		1909	80	1,393	2,385	760	1,072	2,758
	1909	118	2,383	4,305	904	4,813	7,620	Electrical machinery, ap- paratus, and supplies.	1919	161	27,290	32,660	30,571	51,626	119,528
Carriages and wagons and materials.	1919	107	2,692	7,621	3,238	8,134	14,863		1914	142	16,483	21,140	12,366	19,379	45,667
	1914	296	4,861	12,285	3,405	8,368	15,192		1909	143	9,041	11,636	6,413	13,628	26,826
	1909	325	5,852	9,684	3,588	9,470	16,831	Fertilizers.....	1919	12	653	3,090	755	3,723	6,160
Cars and general shop con- struction and repairs by electric-railroad com- panies.	1919	49	3,151	6,395	4,390	2,797	7,478		1914	12	696	3,739	398	2,350	3,775
	1914	43	1,813	1,845	1,387	1,527	3,181		1909	11	444	2,145	225	1,425	2,386
	1909	30	2,240	2,225	1,395	1,807	3,451	Flour-mill and gristmill products.	1919	322	2,740	37,118	2,926	103,165	116,563
Cars and general shop con- struction and repairs by steam-railroad com- panies.	1919	133	40,219	54,852	55,601	39,801	103,219		1914	406	2,398	35,793	1,456	42,841	49,493
	1914	94	28,682	36,781	20,433	18,318	41,496		1909	461	2,404	38,472	1,271	45,590	51,111
	1909	73	23,131	20,740	15,288	15,233	32,229								

<sup>1</sup>Includes "pickles, preserves, and sauces."<sup>2</sup>Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."



TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages. Cost of materials. Value of prod- ucts.			INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages. Cost of materials. Value of prod- ucts.		
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
THE STATE--ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES--Continued.															
Food preparations, not elsewhere specified.	1919 1914 1909	134 115 116	4,061 1,790 1,350	18,767 7,772 5,070	4,162 1,006 672	80,431 12,751 7,196	94,240 17,020 10,403	Looking-glass and picture frames.	1919 1914 1909	60 59 68	1,944 1,741 2,076	2,112 1,577 2,180	2,091 1,031 1,128	2,743 1,582 1,774	7,160 3,837 4,506
Foundry and machine- shop products. <sup>1</sup>	1919 1914 1909	2,009 1,371 1,178	83,114 55,261 52,266	172,913 109,543 92,831	106,504 37,968 33,157	189,859 60,606 63,810	421,969 141,329 138,579	Lumber and timber prod- ucts. <sup>2</sup>	1919 1914 1909	521 618 814	11,488 14,870 16,507	42,797 45,745 52,015	12,541 9,747 9,110	34,664 24,124 27,264	61,104 42,064 44,952
Fur goods.	1919 1914 1909	123 84 63	670 300 319	158 141 59	1,099 219 230	4,612 870 1,071	8,113 1,605 1,920	Malt.	1919 1914 1909	10 14 12	378 438 377	7,211 7,724 6,405	547 426 305	6,238 9,185 7,460	8,020 11,133 9,543
Furnishing goods, men's.	1919 1914 1909	34 44 44	1,566 2,078 1,955	983 677 745	1,007 823 796	4,755 3,282 3,626	8,535 5,063 5,633	Marble and stone work.	1919 1914 1909	247 312 278	1,081 1,975 2,226	6,089 6,381 5,003	1,498 1,656 1,766	3,512 2,576 3,030	7,443 6,176 6,771
Furniture and refrigera- tors.	1919 1914 1909	295 283 267	12,603 13,766 13,575	23,922 26,039 20,575	14,468 8,901 8,100	28,577 15,713 12,501	61,969 33,000 27,900	Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	72 86 86	1,571 1,018 831	2,008 1,435 849	1,588 546 448	4,847 2,126 1,634	8,725 3,670 2,860
Gas and electric fixtures and lamps and reflect- ors.	1919 1914 1909	67 76 78	2,038 2,078 2,090	2,550 2,081 1,883	2,501 1,382 1,184	5,778 3,040 2,694	11,833 6,158 5,797	Millinery and lace goods, not elsewhere specified.	1919 1914 1909	121 102 103	4,830 3,323 3,328	1,262 1,130 549	4,466 1,804 1,384	10,729 5,019 3,797	19,849 9,222 7,282
Gas, illuminating and heating.	1919 1914 1909	70 75 78	4,430 3,890 6,301	21,912 31,058 18,385	5,372 2,659 2,967	17,892 8,035 6,210	36,930 28,171 21,052	Mineral and soda waters.	1919 1914 1909	275 287 276	719 836 885	1,471 1,484 1,620	770 614 538	2,388 1,128 1,060	5,232 2,784 3,047
Glass.	1919 1914 1909	14 10 11	4,065 3,764 3,507	10,594 9,685 6,038	3,741 2,692 2,182	5,559 2,808 1,611	13,245 7,680 5,047	Musical instruments, pi- anos and organs and materials.	1919 1914 1909	52 71 68	8,575 8,334 8,777	10,475 8,597 8,123	9,118 5,237 5,009	15,538 8,321 8,642	36,255 19,706 19,176
Gloves and mittens, leather.	1919 1914 1909	31 28 29	1,239 1,371 1,309	376 797 657	1,024 646 519	3,074 1,687 1,478	5,423 2,774 2,523	Oil, not elsewhere speci- fied.	1919 1914 1909	16 7 11	101 21 23	463 60 82	123 14 17	3,945 319 379	5,865 556 608
Glue, not elsewhere speci- fied.	1919 1914 1909	11 9 9	1,583 968 946	7,477 3,316 5,093	1,547 614 481	4,940 2,385 1,887	9,157 3,731 3,776	Paint and varnish.	1919 1914 1909	83 72 74	3,178 2,110 1,792	14,012 9,908 7,108	3,221 1,301 1,114	37,502 15,476 12,902	54,787 24,438 20,434
House-furnishing goods, not elsewhere specified.	1919 1914 1909	51 46 27	843 506 292	1,247 698 376	701 264 131	3,974 1,522 801	6,337 3,079 1,379	Paper and wood pulp.	1919 1914 1909	19 21 19	1,831 1,704 1,397	22,438 24,613 15,169	2,130 1,118 727	9,212 4,265 3,099	14,357 6,952 4,983
Ice, manufactured.	1919 1914 1909	154 128 83	1,681 1,312 804	41,110 26,183 13,288	2,226 970 534	2,515 1,005 442	10,093 3,389 1,928	Paper goods, not elsewhere specified. <sup>4</sup>	1919 1914 1909	40 46 46	2,063 1,570 1,317	2,231 1,374 809	1,812 778 546	6,779 2,530 1,997	13,012 4,693 3,779
Instruments, professional and scientific.	1919 1914 1909	33 30 25	3,621 1,104 438	3,048 1,065 375	4,268 814 287	5,983 1,121 555	14,881 3,970 1,769	Patent medicines and compounds and drug- gists' preparations. <sup>5</sup>	1919 1914 1909	314 303 359	2,812 1,844 1,869	3,905 2,573 3,234	2,436 1,066 805	16,789 5,097 4,413	39,059 15,032 13,114
Iron and steel, blast fur- naces.	1919 1914 1909	5 5 6	2,129 1,450 2,493	80,118 94,100 70,453	3,847 1,348 1,793	51,527 21,794 30,908	64,762 25,862 38,300	Petroleum, refining.	1919 1914 1909	13 9 7	2,448 1,072 312	5,108 2,607 1,185	3,484 899 232	54,053 12,408 3,980	64,549 10,893 6,135
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919 1914 1909	13 8 11	906 470 877	1,463 1,019 1,513	1,031 299 437	3,069 769 1,013	6,109 1,283 1,955	Photographic apparatus and materials.	1919 1914 1909	25 18 13	1,079 499 284	1,231 672 430	1,027 327 157	2,467 646 318	5,189 1,315 740
Iron and steel forgings, not made in steel works or rolling mills.	1919 1914 1909	24 17 17	2,228 750 794	10,737 2,883 2,779	3,182 610 590	8,076 1,131 1,364	15,267 2,061 2,520	Printing and publishing. <sup>6</sup>	1919 1914 1909	2,647 2,722 2,608	36,537 32,833 28,644	40,987 33,503 26,975	43,830 24,048 18,437	79,308 33,273 24,680	219,331 112,833 87,247
Iron and steel, steel works and rolling mills.	1919 1914 1909	32 25 24	20,177 15,408 17,584	242,227 178,709 152,470	34,964 12,968 12,962	100,319 39,938 56,244	173,345 64,995 86,608	Roofing materials.	1919 1914 1909	25 23 17	2,722 862 322	9,425 1,766 603	3,120 579 192	17,518 4,319 2,050	27,561 6,644 3,375
Jewelry.	1919 1914 1909	78 100 67	992 992 990	455 585 367	1,301 795 650	2,637 1,255 1,264	6,082 3,264 2,780	Screws, machine.	1919 1914 1909	24 9 5	1,811 567 1,960	3,128 1,045 2,413	2,085 373 2,306	2,598 439 2,377	6,617 1,028 7,167
Knit goods.	1919 1914 1909	58 46 43	5,095 3,535 2,913	3,644 2,531 3,452	3,809 1,546 1,116	11,701 4,067 3,232	20,400 7,367 5,917	Sewing machines and at- tachments.	1919 1914 1909	5 7 6	1,960 1,717 1,602	2,413 2,615 2,233	2,306 1,061 1,061	2,377 1,055 1,070	7,167 3,518 3,509
Leather goods. <sup>7</sup>	1919 1914 1909	295 304 168	2,838 2,325 2,919	1,857 2,067 2,200	3,276 1,486 1,633	10,824 4,538 5,135	18,624 7,982 8,948	Signs and advertising novelties.	1919 1914 1909	100 150 51	1,883 2,176 1,290	1,383 1,888 781	1,665 1,404 750	3,026 1,824 985	8,247 6,045 3,271
Leather, tanned, curried, and finished.	1919 1914 1909	29 28 29	4,434 2,678 3,001	14,626 7,920 6,769	5,247 1,538 1,582	42,652 13,917 12,131	60,324 17,509 14,912	Slaughtering and meat packing. <sup>7</sup>	1919 1914 1909	126 98 109	54,975 31,627 26,705	88,106 67,519 56,061	81,160 142,015 14,602	1,150,463 412,015 343,976	1,294,167 489,230 389,595
Liquors, malt.	1919 1914 1909	61 89 106	2,796 5,749 4,398	37,401 31,847 27,900	3,783 5,872 3,473	7,139 10,406 7,033	27,323 39,436 28,449	Smelting and refining, zinc.	1919 1914 1909	7 8 5	4,224 3,573 1,022	19,796 16,263 7,485	4,994 2,571 1,275	18,453 14,200 6,490	24,954 18,421 9,004
Liquors, malt.	1919 1914 1909	61 89 106	2,796 5,749 4,398	37,401 31,847 27,900	3,783 5,872 3,473	7,139 10,406 7,033	27,323 39,436 28,449	Smelting and refining, not from the ore.	1919 1914 1909	17 17 11	479 282 369	1,610 1,337 1,763	637 190 207	9,316 3,516 3,234	11,233 4,687 3,030

<sup>1</sup> Includes "automobile repairing"; "bells"; "engines, steam, gas, and water"; "gas machines and 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"; "steel barrels, drums, and tanks"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts," in all years; and "iron and steel, cast-iron pipe," in 1914.

<sup>2</sup> Includes "pocketbooks"; "saddlery and harness"; and "trunks and valises."

<sup>3</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens and weather strips."

<sup>4</sup> Includes "cardboard, not made in paper mills" and "envelopes."

<sup>5</sup> Includes "perfumery and cosmetics."

<sup>6</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

<sup>7</sup> Includes "sausage, not made in slaughtering and meat-packing establishments."



TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Soap.....	1919	29	2,270	2,578	2,366	19,484	25,734	Washing machines and clothes wringers.	1919	21	1,747	1,230	2,130	8,574	14,436
	1914	27	2,144	6,108	1,255	15,253	21,420		1914	18	247	296	150	623	1,137
	1909	34	2,188	5,155	1,053	13,948	20,181		1909	13	80	70	53	173	432
Springs, steel, car and car- riage, not made in steel works or rolling mills.	1919	12	1,104	1,797	1,134	3,725	6,037	Window shades and fix- tures.	1919	59	1,344	3,079	1,092	7,969	11,261
	1914	7	488	1,203	323	658	1,400		1914	47	918	2,102	544	3,632	4,951
	1909	5	459	1,151	268	652	1,380		1909	36	778	1,240	434	3,163	4,665
Stationery goods, not else- where specified.	1919	32	1,608	1,368	1,550	3,230	8,951	Wire.....	1919	10	2,775	10,554	4,605	18,447	20,855
	1914	23	467	440	290	875	2,042		1914	9	2,763	17,000	2,058	9,872	15,219
	1909	21	811	804	376	1,043	2,275		1909	7	2,516	12,380	1,758	11,001	10,579
Stoves and furnaces, in- cluding gas and oil stoves.	1919	69	5,512	7,518	7,284	10,684	26,530	Wirework, not elsewhere specified.	1919	49	821	1,300	871	4,070	6,958
	1914	70	3,917	5,180	2,859	4,191	10,203		1914	51	886	1,677	555	3,421	4,682
	1909	71	4,499	4,983	2,057	3,850	10,287		1909	60	724	1,055	358	2,087	3,321
Tobacco, cigars and cig- arettes.	1919	1,182	3,363	76	2,076	5,338	11,827	All other industries.....	1919	2,191	71,504	174,780	81,165	340,024	585,781
	1914	1,578	6,457	143	3,324	5,082	13,320		1914	2,153	49,450	115,103	32,350	136,501	264,437
	1909	1,896	6,919	64	3,741	4,988	13,631		1909	2,273	53,761	90,837	28,592	152,432	263,275
Wall paper, not made in paper mills.	1919	9	954	2,230	909	3,328	5,708								
	1914	5	544	1,062	335	1,281	2,254								
	1909	5	290	492	173	702	1,367								

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

CHICAGO.....	1919	10,537	403,942	825,972	507,754	2,370,212	3,657,424	CHICAGO—Con.	1919	254	6,330	5,804	7,237	21,826	38,015
All industries.	1914	10,115	313,710	681,114	213,737	901,933	1,483,408	Copper, tin, and sheet-iron products. <sup>1</sup>	1914	203	3,998	3,196	2,774	7,214	13,236
	1909	9,656	293,977	525,236	176,973	790,609	1,281,171		1909	208	3,850	2,850	2,472	6,403	12,242
Automobiles, including bodies and parts.	1919	149	4,900	5,493	6,414	49,035	69,545	Cutlery and tools, not elsewhere specified.	1919	103	3,387	5,845	4,123	4,820	13,400
	1914	65	1,429	1,612	1,107	2,155	4,700		1914	50	1,150	2,008	706	700	2,170
	1909	41	1,460	734	1,131	1,707	3,940		1909	53	982	1,499	554	680	1,895
Boots and shoes, including out stock and findings.	1919	40	3,871	2,576	3,658	15,341	23,870	Electrical machinery, apparatus, and supplies.	1919	140	13,880	14,840	14,756	37,205	78,348
	1914	41	3,936	2,022	2,357	7,523	11,663		1914	125	5,508	4,849	3,648	7,152	17,568
	1909	31	3,027	1,103	1,920	6,045	9,855		1909	123	6,090	6,443	3,800	11,405	20,600
Boxes, paper and other, not elsewhere specified.	1919	70	4,489	3,706	3,950	9,760	19,251	Fancy articles, not elsewhere specified. <sup>2</sup>	1919	54	909	224	735	2,397	4,344
	1914	67	3,756	2,148	1,700	3,325	6,945		1914	46	684	419	447	1,203	2,344
	1909	48	3,009	1,575	1,311	2,232	5,044		1909	40	438	210	218	568	1,289
Brass, bronze, and copper products.	1919	72	2,519	3,460	3,104	12,803	20,422	Food preparations, not elsewhere specified.	1919	99	2,838	7,720	2,614	47,796	57,055
	1914	59	1,222	2,153	897	4,381	6,314		1914	74	1,141	2,699	620	7,473	10,048
	1909	56	1,167	1,099	810	3,266	5,131		1909	77	798	1,482	399	4,052	5,995
Bread and other bakery products.	1919	1,338	9,413	9,429	11,193	45,104	77,542	Foundry and machine-shop products. <sup>3</sup>	1919	903	44,388	85,320	57,386	103,539	230,410
	1914	1,305	7,680	6,543	5,091	17,418	34,217		1914	707	31,404	50,471	22,342	30,064	85,359
	1909	1,177	6,437	3,847	4,146	16,280	20,908		1909	600	31,055	54,876	20,490	40,765	80,600
Butter.....	1919	6	163	454	193	4,383	4,886	Fur goods.....	1919	120	654	152	1,077	4,576	8,019
	1914	7	67	233	42	1,097	1,347		1914	84	300	141	210	870	1,605
	1909	5	68	159	48	1,089	1,394		1909	50	308	59	225	1,000	1,903
Carriages and wagons, including repairs.	1919	49	1,210	3,143	1,574	4,233	7,117	Furnishing goods, men's..	1919	27	917	604	806	3,982	6,703
	1914	127	1,735	4,581	1,295	2,541	4,989		1914	30	1,020	472	544	2,265	3,580
	1909	117	1,933	3,003	1,233	2,482	5,015		1909	26	1,336	530	610	3,061	4,773
Cars and general shop construction and repairs by steam-railroad companies.	1919	26	15,746	25,750	21,252	16,525	41,580	Furniture.....	1919	222	8,627	14,840	9,725	18,582	41,612
	1914	23	11,835	13,150	8,260	7,080	16,688		1914	212	9,733	18,561	6,357	10,735	23,350
	1909	22	11,050	7,232	7,305	7,310	15,359		1909	196	9,712	14,196	5,917	8,050	20,168
Cars, steam-railroad, not including operations of railroad companies.	1919	10	10,663	26,719	15,977	49,965	77,229	Gas and electric fixtures..	1919	34	1,097	1,433	1,181	2,802	5,540
	1914	12	15,539	27,052	13,923	32,389	50,993		1914	43	1,254	1,317	890	2,021	4,075
	1909	18	8,553	14,576	6,387	11,620	20,892		1909	47	1,434	956	815	1,850	4,100
Chemicals.....	1919	17	242	2,392	341	2,111	4,368	House-furnishing goods, not elsewhere specified.	1919	44	741	1,128	628	3,804	6,024
	1914	15	174	950	112	1,064	1,817		1914	40	495	688	251	1,512	3,054
	1909	13	150	790	97	617	1,176								
Cleansing and polishing preparations.	1919	48	348	391	367	2,251	4,604	Ice, manufactured.....	1919	33	563	21,099	972	971	4,988
	1914	42	89	92	52	329	614		1914	18	448	10,732	403	455	1,334
	1909	38	66	201	38	216	491		1909	6	206	3,024	153	120	509
Clothing, men's, including shirts.	1919	486	31,287	5,813	43,227	88,278	193,051	Iron and steel forgings, not made in steel works or rolling mills.	1919	12	1,142	5,202	1,520	4,573	8,076
	1914	563	32,400	4,292	19,012	38,440	84,340		1914	10	468	1,699	398	728	1,280
	1909	678	33,615	2,916	18,638	39,907	85,206		1909	11	683	1,609	541	1,238	2,289
Clothing, women's.....	1919	374	9,147	1,671	10,787	38,813	64,203	Jewelry.....	1919	72	976	420	1,285	2,603	6,015
	1914	227	7,330	1,051	4,200	10,380	19,211		1914	89	929	514	751	1,212	3,136
	1909	204	5,615	698	2,997	8,658	15,677		1909	55	910	294	606	1,218	2,635
Coffins, burial cases, and undertakers' goods.	1919	14	762	1,129	785	2,008	4,020	Knit goods.....	1919	38	1,517	870	1,080	3,331	6,023
	1914	13	654	1,100	440	1,071	2,262		1914	33	1,089	468	484	1,232	2,325
	1909	13	576	828	339	764	1,838		1909	29	743	107	289	783	1,477
Confectionery and ice cream.	1919	191	7,245	10,461	7,204	34,199	61,577	Leather goods <sup>4</sup> .....	1919	134	2,136	1,364	2,496	7,459	13,482
	1914	131	4,863	7,595	2,407	12,476	22,980		1914	175	1,703	1,142	1,087	3,021	5,463
									1909	90	2,178	804	1,174	3,280	5,861
Cooperage and wooden goods, not elsewhere specified.	1919	24	1,069	2,483	1,415	5,618	8,726	Leather, tanned, curried, and finished.	1919	26	3,666	11,019	4,310	34,295	50,520
	1914	34	1,186	2,220	602	2,060	3,839		1914	24	2,311	7,128	1,333	12,512	15,663
	1909	37	1,166	1,984	601	2,188	3,368		1909	24	2,674	6,212	1,413	10,788	13,244

<sup>1</sup> Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."<sup>2</sup> Includes "combs and hairpins, not made from metal or rubber," and "ivory, shell, and bone work."<sup>3</sup> Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and 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"; "steel barrels, drums, and tanks"; and "structural ironwork, not made in steel works or rolling mills," in all years; "bells," in 1914 and 1909; and "iron and steel, cast-iron pipe,"



## MANUFACTURES—ILLINOIS.

TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.																
CHICAGO—Con.								EAST ST. LOUIS—Con.								
Liquors, malt.....	1919	27	1,890	10,515	2,739	5,279	20,573	All other industries.....	1919	99	7,224	36,603	8,581	39,180	58,457	
	1914	37	3,973	22,156	3,978	7,599	28,933		1914	80	4,568	15,254	3,384	11,903	19,404	
	1909	45	2,867	15,666	2,378	4,850	19,512		1909	83	4,335	20,780	2,590	8,092	13,682	
Looking-glass and picture frames.	1919	50	1,937	2,107	2,082	2,709	7,087	PEORIA..... All industries.	1919	253	7,977	25,510	8,151	35,919	57,075	
	1914	52	1,732	1,573	1,024	1,671	3,814			1914	283	6,285	22,881	4,144	21,289	64,089
	1909	61	2,063	2,176	1,118	1,764	4,476			1909	283	5,981	16,266	3,552	17,773	63,061
Lumber and timber prod- ucts. <sup>1</sup>	1919	169	6,773	22,005	7,895	23,451	40,118	Bread and other bakery products.	1919	33	288	283	232	1,238	2,148	
	1914	207	9,023	26,128	6,267	16,813	28,711			1914	34	275	256	158	576	1,057
	1909	195	10,462	25,917	6,149	20,768	32,709			1909	39	194	172	104	482	764
Mattresses and spring beds, not elsewhere specified.	1919	50	1,454	1,764	1,479	4,426	7,992	Cooperage, hogsheads and barrels.	1919	3	223	805	228	962	1,474	
	1914	60	890	1,080	481	1,905	3,304			1914	5	288	1,103	175	876	1,176
	1909	58	683	495	371	1,349	2,377			1909	5	514	910	172	840	1,153
Musical instruments, pi- anos and organs and ma- terials.	1919	33	5,447	5,502	5,966	10,216	24,682	Flour-mill and gristmill products.	1919	4	29	460	35	622	909	
	1914	46	4,950	5,502	3,304	5,055	12,671			1914	4	50	365	33	725	815
	1909	37	5,209	4,677	3,034	4,848	11,487			1909	4	34	326	22	640	759
Paint and varnish.....	1919	66	2,802	12,232	2,831	34,671	50,306	Foundry and machine- shop products. <sup>5</sup>	1919	29	365	749	450	915	1,498	
	1914	60	1,959	9,175	1,201	14,310	22,811			1914	15	195	431	152	183	439
	1909	61	1,606	5,837	996	11,845	18,942			1909	20	420	986	315	515	1,082
Patent medicines and compounds and drug- gists' preparations. <sup>2</sup>	1919	230	1,833	2,024	1,836	10,679	27,763	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	6	138	368	153	276	562	
	1914	271	1,309	1,644	788	3,199	10,809			1914	7	159	369	127	209	437
	1909	273	1,361	2,030	632	3,216	10,360			1909	6	166	458	120	184	398
Pickles, preserves, and sauces.	1919	46	1,353	1,973	1,169	8,637	12,825	Printing and publishing..	1919	30	473	463	365	552	1,789	
	1914	41	987	2,781	465	3,087	4,678			1914	30	446	473	267	254	1,020
	1909	41	851	1,044	369	2,156	3,398			1909	32	325	410	209	221	881
Printing and publishing. <sup>3</sup>	1919	1,561	30,469	32,679	38,029	71,272	194,612	Tobacco, cigars.....	1919	27	177	1	124	202	430	
	1914	1,543	26,247	25,871	20,012	29,326	97,507			1914	32	264	.....	172	192	512
	1909	1,395	22,326	20,162	15,077	21,256	74,211			1909	36	308	.....	204	240	647
Roofing materials.....	1919	14	1,154	2,411	1,521	9,161	13,745	All other industries.....	1919	121	1,693	22,381	6,564	31,152	48,265	
	1914	12	504	1,124	405	2,868	4,511			1914	156	4,608	19,884	3,060	18,274	59,233
	1909	8	206	307	123	1,497	2,461			1909	141	4,020	13,004	2,406	14,651	57,377
Signs and advertising novelties.	1919	98	1,366	898	1,327	2,273	5,833	ROCKFORD..... All industries.	1919	312	14,992	33,963	18,379	36,567	74,919	
	1914	136	1,700	1,392	1,100	1,392	4,989			1914	265	10,472	21,039	6,645	13,414	26,371
	1909	43	1,198	716	724	884	2,973			1909	205	9,309	16,217	5,213	10,582	22,206
Slaughtering and meat packing. <sup>4</sup>	1919	95	46,474	68,773	71,014	965,107	1,092,908	Automobile repairing.....	1919	19	85	140	106	139	318	
	1914	58	26,704	57,318	16,542	345,522	410,709			1914	4	22	13	17	20	52
	1909	67	22,064	45,029	11,985	285,250	325,062									
Smelting and refining, not from the ore.	1919	14	293	540	421	8,395	9,952	Bread and other bakery products.	1919	28	130	119	162	767	1,161	
	1914	13	126	255	105	2,958	3,887			1914	19	147	106	106	319	552
	1909	7	91	108	63	2,237	2,574									
Soap.....	1919	26	2,239	2,488	2,339	19,328	25,505	Confectionery and ice cream.	1919	13	121	320	99	441	733	
	1914	23	2,116	5,974	1,239	15,134	21,255			1914	7	34	112	20	97	154
	1909	27	2,139	4,967	1,035	13,787	19,939									
Stoves and hot-air fur- naces.	1919	22	1,236	1,526	1,828	3,088	8,062	Copper, tin, and sheet- iron work.	1919	9	20	10	29	55	104	
	1914	25	744	1,120	628	1,126	2,705			1914	13	27	1	17	46	97
	1909	26	1,027	981	710	1,101	3,070									
All other industries.....	1919	2,798	100,373	367,573	121,606	515,142	854,349	Foundry and machine- shop products. <sup>6</sup>	1919	38	3,636	6,450	5,010	4,798	13,729	
	1914	2,856	69,582	330,272	52,452	211,809	358,592			1914	25	1,389	2,762	1,103	679	2,444
	1909	2,311	77,911	258,549	45,437	213,096	357,488									
EAST ST. LOUIS..								All industries.								
	1919	157	8,785	40,627	10,936	53,903	77,293	Knit goods.....	1919	32	2,097	5,798	2,547	4,782	9,837	
	1914	125	5,863	18,183	4,369	17,423	26,905			1914	25	2,140	4,550	1,358	2,293	4,585
	1909	138	5,226	23,238	3,233	11,361	18,104			1919	5	1,712	2,184	1,793	5,517	9,728
Bread and other bakery products.	1919	24	70	85	95	331	556		1914	5	1,584	1,778	777	2,111	3,907	
	1914	17	77	72	62	216	335	Marble and stone work, monuments and tomb- stones.	1919	5	13	60	22	63	120	
	1909	20	71	49	53	177	336			1914	6	18	23	15	60	106
Cars and general shop con- struction and repairs by steam-railroad compa- nies.	1919	7	1,142	656	1,879	1,117	3,266		Printing and publishing, book and job.	1919	16	132	127	124	191	488
	1914	6	991	730	765	370	1,276			1914	16	129	99	80	73	309
	1909	3	628	409	457	364	847									
Copper, tin, and sheet- iron work.	1919	13	29	2	36	52	123	Printing and publishing, newspapers and periodi- cals.	1919	5	74	98	97	210	584	
	1914	7	18	.....	14	24	50			1914	6	68	162	79	40	253
	1909	14	73	.....	66	82	183									
Flour-mill and gristmill products.	1919	6	289	3,281	317	13,177	14,786	Pumps, not including power pumps.	1919	4	235	565	332	205	832	
	1914	7	192	2,127	133	4,899	5,811			1914	3	206	290	160	230	480
	1909	6	108	2,000	58	2,634	3,016									
Tobacco, cigars.....	1919	8	31	.....	28	46	105	Tools, not elsewhere speci- fied.	1919	8	74	274	93	74	334	
	1914	8	17	.....	11	11	29			1914	4	20	58	23	16	57
	1909	12	11	.....	9	12	40									
All other industries.....	1919	130	6,663	17,818	7,965	10,325	36,951		1919	130	6,663	17,818	7,965	10,325	36,951	
	1914	132	4,679	11,085	2,890	7,430	13,375			1914	132	4,679	11,085	2,890	7,430	13,375
	1909	122	4,000	10,000	2,000	7,000	12,000			1909	122	4,000	10,000	2,000	7,000	12,000

<sup>1</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens and weather strips."

<sup>2</sup> Includes "perfumery and cosmetics."

<sup>3</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

<sup>4</sup> Includes "sausage, not made in slaughtering and meat-packing establishments."

<sup>5</sup> Includes "hardware"; "iron and steel, welding"; "steel barrels, drums and tanks"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "automobile repairing"; "gas machines"; and "steam fittings and steam and hot-water heating apparatus" in 1919.

<sup>6</sup> Includes "iron and steel, welding"; "machine tools"; and "textile machinery and parts."



# MANUFACTURES—ILLINOIS.

41

TABLE 42.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
SPRINGFIELD..... All industries.	1919 1914 1909	181 189 171	5,365 4,157 3,652	7,849 9,823 6,368	5,077 2,535 2,096	12,384 5,882 4,204	22,723 11,770 8,497	SPRINGFIELD—Con. Lumber and timber prod- ucts. <sup>1</sup>	1919 1914 1909	7 9 7	88 106 147	263 358 312	97 83 89	206 144 110	358 204 242
Bread and other bakery products.	1919 1914 1909	18 17 16	113 83 55	129 102 79	101 56 43	514 210 182	883 370 310	Printing and publishing..	1919 1914 1909	24 28 27	399 424 321	335 387 257	425 195 203	444 241 163	1,441 936 730
Cars and general shop construction and re- pairs by steam-rail- road companies.	1919 1914	4 4	397 327	475 1,020	634 231	287 155	971 410	Tobacco, cigars.....	1919 1914 1909	15 31 30	65 120 122	3 ..... .....	47 65 61	72 67 73	201 190 206
Copper, tin, and sheet- iron work.	1919 1914 1909	15 14 10	54 54 60	7 63 32	59 48 39	77 92 90	211 159 178	All other industries.....	1919 1914 1909	86 75 71	3,957 2,906 2,726	5,742 7,300 4,894	3,400 1,766 1,526	9,736 4,706 3,331	16,628 8,950 6,340
Foundry and machine- shop products.	1919 1914 1909	12 11 10	292 137 221	895 593 794	317 91 135	1,048 207 255	2,030 461 482								

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

<b>ALTON.</b> .....	1919 1914 1909	60 76 69	3,236 2,662 2,429	10,032 8,335 5,453	3,111 1,759 1,528	19,775 8,604 7,262	31,637 12,865 10,096	<b>GRANITE CITY.</b> .....	1919 1914	37 39	5,493 5,090	25,322 17,550	8,193 4,007	25,760 9,815	43,039 17,903
<b>AURORA.</b> .....	1919 1914 1909	133 140 165	6,608 4,777 5,095	11,429 7,794 7,906	7,687 3,033 2,936	12,684 5,259 5,580	30,030 10,789 10,951	<b>JACKSONVILLE.</b> .....	1919 1914 1909	50 63 57	1,091 932 947	1,830 2,855 1,180	936 499 487	5,177 1,360 1,307	7,127 2,355 2,299
<b>BELLEVILLE.</b> .....	1919 1914 1909	141 129 119	3,160 2,450 1,872	6,212 4,447 4,541	2,896 1,410 1,062	7,680 2,906 2,324	14,017 5,727 4,615	<b>JOLIET.</b> .....	1919 1914 1909	166 136 137	11,250 4,999 6,383	83,226 45,918 37,744	15,714 3,569 4,435	49,092 20,036 27,758	82,070 30,001 38,817
<b>BLOOMINGTON.</b> .....	1919 1914 1909	83 100 107	2,818 2,384 2,077	6,196 4,579 2,877	3,396 1,549 1,183	5,567 2,084 2,527	11,520 4,804 4,808	<b>KANKAKEE.</b> .....	1919 1914 1909	54 53 55	1,060 1,430 1,349	4,575 3,543 3,988	1,838 763 622	3,844 1,704 1,493	7,287 3,193 2,723
<b>CAIRO.</b> .....	1919 1914 1909	55 61 56	1,792 1,522 1,237	6,731 5,222 4,764	1,745 853 628	7,310 3,046 2,957	10,526 4,584 4,440	<b>KEWANEE.</b> .....	1919 1914	37 31	3,000 2,837	9,167 5,394	5,223 1,576	7,339 2,686	16,279 5,447
<b>CANTON.</b> .....	1919 1914 1909	33 34 33	1,290 920 1,262	4,154 5,807 3,716	1,127 829 692	2,511 1,126 1,183	4,558 2,577 2,942	<b>LA SALLE.</b> .....	1919 1914 1909	38 30 28	1,792 1,214 936	20,388 8,342 5,705	2,283 817 593	5,271 3,484 2,683	9,534 5,246 4,328
<b>CENTRALIA.</b> .....	1919 1914	30 30	1,003 237	1,232 1,212	1,133 123	1,328 445	3,911 768	<b>LINCOLN.</b> .....	1919 1914 1909	33 40 40	194 239 220	550 506 385	143 134 115	384 284 290	785 561 570
<b>CHAMPAIGN.</b> .....	1919 1914 1909	80 59 42	1,063 382 273	2,082 1,125 476	1,249 243 174	2,733 633 419	5,187 1,315 846	<b>MATTOON.</b> .....	1919 1914 1909	65 47 35	1,134 735 948	1,707 2,305 1,019	1,408 471 561	1,856 693 668	4,051 1,544 1,434
<b>CHICAGO HEIGHTS.</b> .....	1919 1914 1909	103 77 79	5,328 4,288 3,953	27,176 21,002 10,176	7,028 2,047 2,471	23,101 7,685 5,611	41,788 14,480 10,839	<b>MOLINE.</b> .....	1919 1914 1909	61 108 65	5,444 5,053 5,387	16,091 12,200 10,005	7,438 3,510 3,474	22,688 10,387 11,049	44,871 19,925 20,664
<b>DANVILLE.</b> .....	1919 1914 1909	112 100 76	3,343 2,109 1,744	8,452 4,735 3,268	3,862 1,346 1,077	8,710 2,928 1,430	15,000 5,291 3,351	<b>OAK PARK.</b> .....	1919 1914 1909	44 47 23	383 298 282	737 1,113 758	481 241 197	975 492 391	2,281 1,555 1,118
<b>DECATUR.</b> .....	1919 1914 1909	103 126 157	5,693 4,093 2,639	16,969 10,634 6,447	6,984 2,324 1,420	24,088 6,666 5,918	38,684 11,957 9,768	<b>PERIN.</b> .....	1919 1914	37 44	634 634	6,042 6,628	1,169 492	16,563 3,972	25,664 9,610
<b>ELGIN.</b> .....	1919 1914 1909	80 91 114	6,846 5,529 6,067	6,891 5,956 5,984	7,726 3,321 3,364	10,818 4,271 4,029	25,619 10,492 10,537	<b>QUINCY.</b> .....	1919 1914 1909	183 194 235	4,443 3,067 3,997	11,730 6,207 7,557	4,208 1,893 2,096	12,438 4,435 5,031	23,499 9,557 11,066
<b>EVANSTON.</b> .....	1919 1914 1909	101 49 60	1,405 924 837	2,450 2,249 1,056	2,105 656 590	5,696 2,439 2,350	9,791 3,985 3,778	<b>ROCK ISLAND.</b> .....	1919 1914 1909	83 106 74	3,208 1,837 1,754	8,625 5,430 3,173	3,942 1,377 1,026	14,248 3,411 2,818	22,350 6,488 5,387
<b>FREEPORT.</b> .....	1919 1914 1909	76 63 69	3,177 2,566 2,853	7,313 4,600 4,412	3,387 1,661 1,570	10,862 3,910 4,417	18,405 7,447 7,811	<b>STREATOR.</b> .....	1919 1914 1909	69 69 45	1,301 1,763 1,275	4,973 5,823 3,140	1,124 1,040 644	2,953 1,762 817	6,062 3,887 2,137
<b>GALESBURG.</b> .....	1919 1914 1909	77 60 62	2,222 1,362 1,465	5,457 1,954 1,968	2,475 941 887	5,992 1,515 1,416	10,352 3,192 2,919	<b>WAUKEGAN.</b> .....	1919 1914 1909	52 48 58	2,538 2,276 2,956	23,172 18,063 23,044	3,865 1,777 2,038	15,016 7,630 13,889	24,093 12,439 19,541

<sup>1</sup> Includes "boxes, wooden packing, except cigar boxes"; and "lumber, planing-mill products, not including planing mills connected with sawmills" in all years; and "window and door screens" in 1919 and 1914.



TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Average number.	Wage earners.		Total.	16 and over.		Under 16.		
						Male.	Female.		Maximum month.	Minimum month.		Male.	Female.	Male.	Female.	
1	All industries.....	18,593	804,805	15,282	34,278	64,397	37,734	653,114	No 689,945	My 618,701	(3)	(3)	(3)	(3)	(3)	Dollars. 3,366,452,969
2	Agricultural implements.....	68	26,555	27	1,025	2,103	852	22,548	Fe 25,045	Au 18,920	23,262	22,811	418	33	.....	150,484,328
3	Aluminum manufactures.....	6	405	4	16	19	33	333	No 439	Ja 201	445	401	44	.....	.....	1,288,940
4	Artificial flowers.....	13	339	7	14	23	18	277	No 367	Ja 188	351	67	256	2	26	358,493
5	Artificial limbs.....	12	89	7	11	6	6	59	Se 64	Ja 48	56	50	6	.....	.....	76,700
6	Artificial stone products.....	276	1,100	317	68	34	25	656	Au 869	Fe 408	794	791	3	.....	.....	2,472,799
7	Artists' materials.....	8	40	5	3	3	2	27	Se 29	Ja 24	29	23	4	1	1	129,587
8	Asbestos products, not including steam packing.....	6	232	.....	15	9	6	202	Se 295	Fe 103	203	149	52	2	.....	375,492
9	Automobile bodies and parts.....	204	6,509	136	397	352	326	5,298	De 6,361	Ja 4,298	6,353	5,929	405	14	5	16,911,058
10	Automobiles.....	25	4,456	5	234	477	232	3,507	No 4,040	Ja 3,017	3,985	3,898	79	8	.....	26,673,294
11	Automobile repairing.....	785	4,627	963	194	160	100	3,120	Jy 3,282	Ja 2,918	3,231	3,191	37	3	.....	8,017,459
12	Awnings, tents, and sails.....	53	528	55	46	55	24	348	Je 452	Ja 247	353	187	148	12	6	1,582,965
13	Babbitt metal and solder.....	12	1,012	2	66	151	65	728	.....	.....	969	891	77	1	.....	10,383,294
14	Babbitt metal.....	9	948	2	57	142	49	698	No 934	Au 431	936	860	76	.....	.....	9,776,501
15	White metal and solder.....	3	61	.....	9	16	30	De 33	Ap 27	.....	33	31	1	1	.....	606,793
16	Bags, other than paper, not including bags made in paper mills.....	9	439	5	20	17	16	381	De 446	Fe 324	446	156	265	.....	25	3,338,701
17	Baking powders and yeast.....	14	1,636	4	61	354	295	922	No 1,087	Ap 801	1,097	702	395	.....	.....	9,130,832
18	Baskets, and rattan and willow ware.....	12	63	8	5	4	2	44	No 64	Ja 29	60	50	1	9	.....	67,217
19	Belting, leather.....	9	298	4	29	49	24	192	Se 206	Je 175	213	206	5	1	1	2,008,687
20	Billiard tables and accessories.....	3	36	1	3	3	2	30	(e) 30	(e) 30	30	15	15	.....	.....	72,525
21	Blacking, stains, and dressings.....	25	287	19	24	51	26	167	No 210	Ja 140	188	81	105	.....	2	652,742
22	Bluing.....	5	54	5	4	5	.....	40	Se 61	Ja 30	34	12	18	.....	.....	74,812
23	Bookbinding and blank-book making.....	113	2,872	98	137	130	112	2,395	De 2,576	Ja 2,164	2,614	1,351	1,113	66	84	4,703,224
24	Boots and shoes.....	51	8,963	22	267	643	347	7,084	De 8,737	Ap 5,609	8,746	4,686	3,793	143	124	21,466,979
25	Boxes, cigar.....	12	254	12	7	7	4	224	De 239	Fe 216	238	85	126	2	25	404,940
26	Boxes, paper and other, not elsewhere specified.....	87	6,808	41	289	372	243	5,923	.....	.....	6,472	2,715	2,825	210	722	18,844,625
27	Shipping containers.....	15	1,878	2	84	173	82	1,537	No 1,760	Jy 1,258	1,745	1,207	517	5	16	8,444,762
28	Set-up paper boxes.....	50	3,214	34	122	78	77	2,903	Oc 3,069	Ja 2,644	3,107	828	1,712	96	471	4,412,878
29	Cartons.....	12	596	3	40	46	24	483	No 544	Fe 437	501	281	200	3	17	1,621,894
30	All other.....	10	1,180	2	43	75	60	1,000	Ja 1,109	Mh 846	1,119	399	396	106	218	4,466,001
31	Boxes, wooden packing, except cigar boxes.....	63	4,920	45	161	122	68	4,524	Ja 5,024	Jy 2,965	4,663	4,127	510	24	2	9,002,089
32	Brass, bronze, and copper products.....	90	3,883	45	245	275	144	3,174	De 3,565	Je 2,765	3,568	3,303	237	17	1	14,381,005
33	Bread and other bakery products.....	2,345	17,597	2,591	439	1,444	705	12,418	.....	.....	13,444	9,537	3,728	82	97	40,917,447
34	Biscuit and crackers.....	14	4,274	5	120	482	88	3,579	Jy 3,865	Mh 3,145	3,726	1,767	1,869	22	78	13,614,033
35	All other.....	2,331	13,323	2,596	319	962	617	8,839	De 9,458	My 7,723	9,718	7,770	1,869	60	19	27,303,414
36	Brick and tile, terra-cotta, and fire-clay products.....	144	6,471	110	399	237	98	5,627	.....	.....	6,032	6,917	8	7	.....	33,419,279
37	Building brick.....	74	3,278	56	188	100	34	2,900	Oc 3,994	Ja 1,296	3,790	3,785	3	2	.....	18,682,622
38	Fire brick.....	5	506	2	17	14	7	460	Se 548	Fe 296	555	555	.....	.....	.....	2,173,656
39	Sewer pipe and drain tile.....	43	801	40	48	31	20	722	Se 890	Fe 430	870	870	4	2	.....	3,246,210
40	Terra-cotta products.....	16	1,320	12	110	72	29	1,106	No 1,474	Fe 660	1,278	1,274	1	3	.....	6,672,557
41	All other.....	6	497	.....	36	20	8	433	Oc 593	Je 341	433	433	.....	.....	.....	2,044,234
42	Brooms.....	82	882	93	24	54	19	692	Fe 733	Jy 645	731	597	131	2	1	1,916,077
43	Brushes.....	40	523	38	27	41	38	379	Se 389	Ja 356	385	268	104	10	3	1,247,236
44	Butter.....	129	1,288	108	131	93	143	813	Jo 940	Mh 683	789	629	158	2	.....	10,521,505
45	Buttons.....	33	524	35	25	6	6	452	De 546	Fe 404	561	387	169	2	3	604,965
46	Canning and preserving, fish.....	5	32	8	2	1	20	Fe 22	Jo 17	.....	23	20	3	.....	.....	123,377
47	Canning and preserving, fruits and vegetables.....	59	1,652	40	153	27	27	1,405	Se 4,768	Fe 480	1,689	1,055	605	19	10	7,562,036
48	Card cutting and designing.....	5	191	3	8	3	6	171	My 198	Ja 142	186	41	128	.....	17	199,832
49	Cardboard, not made in paper mills.....	3	155	.....	14	7	8	126	Oc 145	Ja 93	133	78	55	.....	.....	598,644
50	Carpets, rug.....	30	387	30	9	22	45	281	No 366	Mh 189	359	248	111	.....	.....	336,225
51	Carriage and wagon materials.....	8	445	8	20	20	8	389	Au 447	Ap 339	394	390	1	3	.....	1,434,737
52	Carriages and sleds, children's.....	8	205	6	8	9	6	176	Fe 183	Ap 161	179	134	40	5	.....	230,768
53	Carriages and wagons, including repairs.....	99	2,724	104	122	123	72	2,303	.....	.....	2,453	2,440	10	3	.....	14,486,030
54	Carriages and wagons.....	37	2,537	28	121	122	71	2,195	Oc 2,453	Je 1,852	2,342	2,332	9	1	.....	14,062,089
55	Repair work only.....	62	187	76	1	1	1	108	My 112	Fe 103	111	108	1	2	.....	423,941
56	Cars and general shop construction and repairs by electric-railroad companies.....	49	3,313	.....	72	62	29	3,151	De 3,474	Jy 2,842	3,463	3,443	20	.....	.....	14,390,570
57	Cars and general shop construction and repairs by steam-railroad companies.....	133	43,498	.....	1,219	1,605	455	40,219	No 41,883	My 33,978	41,917	41,658	257	2	.....	80,181,297
58	Cars, steam-railroad, not including operations of railroad companies.....	19	15,145	.....	389	791	190	13,775	Ja 15,964	Jy 11,151	13,109	12,970	139	.....	.....	63,884,050
59	Cash registers, and calculating machines.....	11	2,168	7	66	151	89	1,855	.....	.....	1,953	1,495	456	2	.....	9,423,473
60	Adding machines.....	4	1,070	1	16	92	49	911	De 1,009	Je 808	1,011	774	235	2	.....	4,264,442
61	All other.....	7	1,058	6	50	58	40	944	Ja 1,099	Au 866	942	721	221	.....	.....	5,150,630
62	Cement.....	5	1,304	.....	24	118	39	1,123	Oc 1,388	Ja 886	1,173	1,168	5	.....	.....	13,065,675
63	Charcoal, not including production in the lumber and wood-distillation industries.....	5	27	3	4	.....	.....	20	Ap 26	No 8	21	21	.....	.....	.....	37,670
64	Cheese.....	56	99	16	10	3	3	67	Je 80	Ja 60	76	73	3	.....	.....	320,678
65	Chemicals.....	33	3,554	14	128	274	134	3,004	Oc 3,544	Ap 2,570	3,248	3,200	48	.....	.....	19,923,103
66	China decorating, not including that done in potteries.....	10	104	10	4	8	6	76	No 92	Ja 59	87	53	34	.....	.....	170,315

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

<sup>3</sup> No figures given for reasons stated under "Explanation of terms."



## COMBINED AND SPECIFIED INDUSTRIES: 1919.

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.		
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				Rent. <sup>2</sup>	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.			Water power. <sup>1</sup>

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

Dollars. 130,029,640	Dollars. 144,586,709	Dollars. 801,087,359	Dollars. 32,006,639	Dollars. 20,073,028	Dollars. 136,886,105	Dollars. 3,362,381,054	Dollars. 125,889,392	Dollars. 5,425,244,604	Dollars. 1,930,974,248	1,600,018	779,156	218,182	55,782	11,586	506,212	584,326	
3,306,170	4,034,713	28,342,271	47,081	50,244	4,734,058	62,803,409	2,206,411	128,281,716	63,124,806	54,008	22,000	10,134	72	1,090	21,312	24,979	2
62,192	67,530	385,362	1,870	1,870	9,743	1,154,965	17,218	1,957,631	785,448	436	436	436	436	436	436	436	3
46,999	54,783	164,470	18,520	17,098	4,145	358,003	4,372	890,314	527,849	61	61	61	61	61	61	61	4
34,221	13,313	61,414	2,635	9,440	4,447	54,314	1,873	247,148	100,061	27	27	27	27	27	27	27	5
113,227	66,086	728,297	2,635	26,668	21,342	984,906	37,032	2,711,808	1,689,840	1,874	287	765	822	822	822	822	6
15,300	4,409	27,241	3,376	6,541	81,909	600	600	179,201	96,551	11	11	11	11	11	11	11	7
30,257	16,141	232,036	6,851	4,647	495,959	16,558	16,558	912,141	390,624	320	320	320	320	320	320	320	8
1,353,441	854,954	6,474,090	83,394	346,642	496,227	12,609,961	342,075	27,864,078	14,942,042	8,835	685	248	7,902	383	383	383	9
867,257	979,259	4,664,716	49,985	120,157	3,107,141	60,867,016	164,756	77,018,464	15,080,602	6,264	380	670	5,213	72	72	72	10
384,084	321,854	4,006,019	23,130	472,873	77,073	5,884,787	220,797	13,051,423	7,818,839	4,278	72	608	3,598	14	14	14	11
164,955	101,680	460,005	2,298	50,494	41,522	1,507,086	15,977	2,804,313	1,370,550	270	270	270	270	270	270	270	12
325,636	412,317	1,006,609	7,947	91,509	21,919,919	201,470	25,895,624	3,774,335	3,774,335	3,017	2,527	490	2,513	13	13	13	13
246,138	374,070	907,532	2,580	75,759	18,882,665	195,933	23,362,641	3,284,043	2,947	2,527	490	2,513	13	13	13	13	13
79,398	37,347	39,077	5,307	15,750	3,037,254	5,437	3,532,983	400,292	400,292	70	70	70	70	70	70	70	15
203,950	47,383	286,474	42,563	167,612	5,389,482	10,837	7,933,791	2,533,385	349	125	125	125	125	125	125	125	16
303,751	642,717	942,700	319,162	531,011	8,667,142	252,609	15,682,387	6,742,576	6,058	3,105	460	2,403	1,715	17	17	17	17
9,600	7,853	42,033	6,920	1,684	79,312	1,621	167,290	80,360	16	16	16	16	16	16	16	16	18
158,244	109,748	257,144	65,122	109,570	2,444,502	15,670	3,415,438	855,266	368	325	325	325	325	325	325	325	19
11,400	3,000	28,960	300	2,704	18,947	1,422	82,241	61,872	27	27	27	27	27	27	27	27	20
69,079	129,068	136,425	1,000	14,713	4,803	921,004	8,598	1,584,740	655,084	151	48	103	102	102	102	102	21
13,582	6,305	27,876	4,500	3,307	223,981	1,605	331,434	105,785	92	92	92	92	92	92	92	92	22
454,882	311,781	2,170,659	138,744	190,725	124,391	2,581,130	57,104	7,477,722	4,830,431	1,263	75	2	1,862	23	23	23	23
854,821	1,005,003	5,902,500	63,169	156,005	615,906	608,264	30,402,383	14,184,064	5,164	3,300	146	1,804	2,107	24	24	24	24
20,746	15,266	166,232	435	13,370	2,573	292,086	6,343	194,664	390,235	146	146	146	146	146	146	146	25
1,180,468	1,043,541	5,170,685	20,901	272,028	820,139	15,260,475	295,350	28,803,083	13,337,258	8,195	3,271	138	1,500	3,286	1,448	26	26
313,706	544,823	1,557,457	4,251	40,479	355,040	7,349,799	142,228	12,454,506	4,671	2,281	1,500	890	500	27	27	27	27
435,734	221,105	2,220,773	9,812	162,047	130,577	3,437,894	94,028	8,238,342	4,705,850	1,553	250	83	1,250	38	38	38	28
262,900	96,350	484,078	6,778	34,068	94,102	2,116,034	19,175	3,688,800	1,552,601	1,004	50	50	954	35	35	35	29
108,128	181,263	902,377	60	35,431	240,414	2,385,878	39,319	4,511,375	2,080,178	967	740	35	192	605	20	20	30
586,700	242,454	4,630,741	72,677	145,664	520,408	10,207,101	97,611	18,856,685	8,494,880	10,234	7,432	1,000	17	1,785	1,481	31	31
1,007,981	513,688	3,855,753	19,110	150,810	631,091	15,223,287	466,409	25,106,507	9,410,811	5,847	185	20	5,642	27	27	27	32
1,136,150	2,818,565	14,383,271	61,651	1,037,700	1,173,545	59,813,876	1,753,287	102,004,190	41,067,027	13,750	3,404	175	236	137	9,738	1,807	33
301,558	790,287	2,900,162	43,477	615,025	11,159,512	175,148	23,639,914	12,305,224	2,391	1,350	135	906	984	34	34	34	33
774,692	2,019,278	11,477,119	64,654	904,223	558,520	48,684,344	1,578,139	70,024,270	28,704,809	11,350	2,114	175	236	2	8,832	913	35
1,057,112	459,003	6,502,174	17,604	337,817	1,905,961	2,923,052	17,504,017	12,734,181	40,098	28,916	360	332	10,400	4,745	36	36	36
497,180	204,999	3,468,060	12,813	13,259	202,337	611,173	1,687,183	9,541,470	25,238,144	25,238	20,141	25	4,847	3,277	37	37	37
84,678	33,350	494,864	4,280	5,259	15,530	241,268	334,226	1,313,647	838,153	2,720	1,470	25	1,225	325	38	38	38
55,338	61,377	658,549	5,282	1,887	23,862	286,251	352,522	1,394,515	1,265,742	4,807	3,800	330	45	542	65	65	39
209,030	107,574	1,305,965	350	80,487	363,849	429,980	3,379,831	2,580,002	4,910	2,825	12	2,079	1,078	40	40	40	40
120,966	51,703	573,836	50	26,300	18,234	1,053,027	18,863	3,422,021	1,450,131	554	161	30	1,803	41	41	41	41
87,008	141,807	721,389	9,760	20,432	50,752	1,208,921	21,631	2,328,802	1,035,247	498	150	50	331	115	42	42	42
91,511	134,006	357,681	3,745	25,801	111,351	23,588,871	149,635	26,740,027	2,637,521	4,015	1,080	41	363	348	43	43	43
345,489	221,859	700,255	5,420	14,430	4,890	384,207	12,603	1,030,452	3,333,552	303	195	53	143	45	45	45	45
50,658	26,365	357,267	3,160	121,795	486,377	5,363,348	97,026	8,816,119	3,415,745	5,137	3,130	100	293	1,608	707	47	47
6,240	1,924	27,023	1,951	121,795	486,377	5,363,348	97,026	8,816,119	3,415,745	5,137	3,130	100	293	1,608	707	47	47
446,277	62,406	1,237,489	1,951	121,795	486,377	5,363,348	97,026	8,816,119	3,415,745	5,137	3,130	100	293	1,608	707	47	47
52,473	24,585	120,714	9,933	7,496	150,500	495,056	2,700	332,700	48	48	48	48	48	48	48	48	48
50,222	18,118	119,057	14,048	26,833	440,233	5,768	991,601	539,003	166	166	166	166	166	166	166	166	49
28,550	50,792	280,941	600	27,692	7,212	314,133	16,201	973,468	643,134	350	25	20	249	50	50	50	50
53,614	32,151	378,936	98	65,222	1,007,192	17,404	1,866,402	841,746	1,271	1,015	7	249	249	51	51	51	51
27,765	23,637	163,192	25	14,425	4,672	181,773	7,301	500,189	311,025	85	85	85	85	85	85	85	52
337,498	234,574	2,859,097	35,312	42,376	353,413	6,923,194	180,009	12,997,031	5,887,788	6,350	2,145	2,160	49	200	1,800	1,820	53
335,804	233,781	2,716,914	31,917	34,544	348,408	6,778,490	176,028	12,548,081	5,594,151	5,060	2,105	2,150	32	200	1,470	1,820	54
1,664	793	142,183	3,395	7,832	4,915	144,695	10,011	418,350	294,614	384	40	17	327	55	55	55	55
153,539	92,378	4,390,343	7,805	29,896	2,747,837	79,130	7,478,033	4,681,090	6,395	905	905	905	905	905	905	905	56
4,142,766	2,880,576	55,000,664	310,167	6,600	258,313	37,290,566	2,510,261	163,219,253	63,418,426	54,852	32,680	3,780	117	18,266	31,705	57	57
1,105,959	1,465,712	20,339,878	50,031	6,704,792	81,077,615	1,350,119	125,217,722	42,780,988	32,429	8,451	18,333	1,000	4,645	32,007	58	58	58
314,375	208,079	2,281,286	3,128	26,462	1,025,139	1,507,236	16,466	7,353,870	5,800,174	1,383	200	1	1,183	100	59	59	59
60,471	144,227	1,148,644	728	7,092	345,446	1,078,667	26,098	4,029,114	2,924,319	973	200	1	973	100			



## MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.	
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			16 and over.		Under 16.			
						Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
									Maximum month.	Minimum month.						
1	Cleansing and polishing preparations.	61	656	34	77	153	31	361	My 47	Oc 38	381	234	140	4	3	Dollars.
2	Cleansing preparations.	25	106	18	19	19	9	41	Fe 79	Ja 75	50	40	14	2	.....	1,562,570
3	Metal polish.	18	149	9	28	19	16	77	Ja 288	Ap 181	70	61	14	.....	.....	170,611
4	All other polishing preparations.	18	401	7	30	115	6	243	.....	.....	249	133	112	2	2	434,002
5	Clothing, men's.	502	40,389	536	1,123	2,823	32,896	.....	.....	.....	39,388	18,319	20,759	85	225	92,988,982
6	Regular factories.	247	33,656	196	1,060	2,985	26,673	.....	.....	.....	32,479	15,609	16,040	59	171	91,248,120
7	Men's and youths'.	173	29,089	136	849	2,552	22,992	.....	.....	.....	27,957	14,182	13,012	44	119	80,353,857
8	Boys'.	10	1,155	12	53	113	53	924	Oc 27,155	Ja 19,131	1,138	558	553	.....	27	2,635,671
9	All other.	64	3,412	48	158	290	159	2,757	De 1,141	Ap 716	3,384	869	2,475	15	25	8,258,692
10	Contract work.	255	6,733	340	63	26	81	6,223	De 3,370	Ja 2,198	6,009	2,710	4,119	26	54	1,740,862
11	Men's and youths'.	242	6,295	323	60	25	79	5,808	Oc 6,288	Ja 5,227	6,431	2,572	3,786	26	47	1,536,108
12	Boys'.	4	88	6	.....	.....	82	84	Ja 84	Mh 80	84	31	49	.....	4	15,740
13	All other.	9	350	11	3	1	2	333	De 384	My 272	304	107	284	.....	3	180,014
14	Clothing, men's, buttonholes.	3	13	4	.....	.....	9	9	My 10	Ja 7	11	3	8	.....	.....	3,750
15	Clothing, women's.	398	12,323	452	420	687	486	10,278	.....	.....	10,469	3,022	7,305	17	125	25,126,503
16	Regular factory products.	363	11,817	409	413	687	485	9,823	.....	.....	9,042	2,801	7,001	17	123	25,065,203
17	Suits, skirts, and cloaks.	145	3,902	183	126	278	224	3,091	So 3,539	Ja 2,539	3,153	1,723	1,408	4	18	9,409,866
18	Shirt waists and dresses, except house dresses.	114	4,223	127	141	200	147	3,608	Se 3,899	Ja 3,275	3,462	556	2,847	6	53	6,548,571
19	Undergarments and petticoats.	25	1,588	17	56	96	53	1,366	No 1,509	Ja 1,260	1,488	358	1,094	6	30	5,462,745
20	Wrappers and house dresses.	20	750	15	37	53	19	626	No 687	My 584	670	63	591	1	15	1,005,635
21	All other.	59	1,354	67	53	60	42	1,132	No 1,109	Ja 996	1,169	101	1,091	.....	7	2,578,446
22	Contract work.	35	506	43	7	.....	1	455	.....	.....	527	221	304	.....	2	.....
23	Suits, skirts, and cloaks.	22	292	28	3	.....	1	260	Au 331	My 171	297	185	112	.....	.....	121,240
24	Shirt waists and dresses, except house dresses.	3	84	2	2	.....	.....	80	Se 101	Ja 52	82	8	74	.....	.....	44,253
25	All other.	10	130	13	2	.....	.....	115	Oc 153	Je 82	148	28	118	.....	2	9,014
26	Coal-tar products.	9	260	2	35	24	13	186	Au 206	Mh 109	212	205	7	.....	.....	67,973
27	Coffee and spice, roasting and grinding.	32	2,656	25	140	1,035	251	1,205	De 1,260	Ap 1,127	1,275	703	519	32	21	1,535,599
28	Coffins, burial cases, and undertakers' goods.	25	1,260	4	73	145	22	1,016	Mh 1,093	De 944	943	752	182	3	6	17,694,964
29	Coke, not including gas-house coke.	4	1,640	.....	89	119	36	1,396	Ja 1,625	Oc 710	1,558	1,558	.....	.....	.....	4,067,672
30	Condensed milk.	38	1,377	6	88	90	82	1,111	Je 1,208	Ja 1,016	1,060	921	125	10	4	25,931,172
31	Confectionery and ice cream.	402	11,026	458	578	686	525	8,779	.....	.....	9,485	4,597	4,549	78	261	14,630,102
32	Confectionery.	237	9,226	209	429	597	428	7,563	Oc 9,516	Jy 5,810	8,385	3,645	4,430	40	261	30,663,459
33	Ice cream.	225	1,800	249	149	89	97	1,216	Jy 1,597	Ja 951	1,100	952	110	38	.....	23,184,273
34	Copperage.	46	1,601	25	84	25	20	1,447	.....	.....	1,515	1,448	60	6	1	7,499,180
35	Hogsheads and barrels.	38	1,234	25	57	20	10	1,122	Oc 1,188	Au 1,067	1,216	1,158	56	1	1	4,849,702
36	All other.	8	367	.....	27	5	10	325	Je 393	Ja 285	299	290	4	5	.....	7,499,180
37	Copper, tin, and sheet-iron work.	391	3,101	409	190	132	138	2,232	Oc 2,459	Ja 1,965	2,489	2,416	59	14	.....	4,849,702
38	Cordials and flavoring sirups.	10	228	2	19	93	33	81	My 106	Au 66	87	64	23	.....	.....	3,794,052
39	Corsets.	22	2,708	8	103	106	218	2,273	Oc 2,459	Ja 1,965	2,489	2,416	59	14	.....	1,055,650
40	Cotton goods.	7	1,355	.....	30	26	22	1,277	De 2,579	Mh 2,141	2,632	306	2,184	33	109	8,295,978
41	Cotton small wares.	3	283	3	4	11	4	261	Se 1,454	Fe 1,098	1,458	689	614	96	59	631,333
42	Cutlery and edge tools.	18	1,164	16	71	58	55	964	Ap 262	Se 259	261	67	188	.....	6	5,836,140
43	Dairymen's, poultrymen's, and apiarists' supplies.	20	787	23	52	58	45	609	No 1,059	Ap 745	1,080	956	111	9	4	4,728,285
44	Incubators and brooders.	7	105	4	5	11	3	82	Ja 110	Jy 46	109	103	6	.....	.....	402,050
45	All other poultrymen's supplies.	6	27	1	.....	.....	1	18	Se 21	My 15	19	17	2	.....	.....	4,327,646
46	Dairymen's and apiarists' supplies.	13	655	12	46	47	41	509	Ja 553	No 466	476	396	80	.....	.....	3,175,310
47	Dental goods.	21	417	17	16	29	36	319	De 328	Ja 301	322	247	66	8	1	526,593
48	Drug grinding.	4	185	1	9	4	5	166	Oc 189	De 137	137	79	49	4	5	2,785,211
49	Druggists' preparations.	31	979	15	68	214	179	503	Ja 581	Jy 425	501	299	196	3	3	883,963
50	Dyeing and finishing textiles, exclusive of that done in textile mills.	11	497	5	29	32	28	403	Fe 478	Au 359	413	191	218	2	2	3,676,433
51	Electrical machinery, apparatus, and supplies.	161	36,515	46	1,319	5,094	2,766	27,290	De 30,965	Mh 25,650	30,952	21,568	8,711	536	137	1,641,658
52	Electroplating.	49	651	49	47	15	19	521	No 587	Ja 429	592	542	28	20	2	96,811,473
53	Emery and other abrasive wheels.	6	105	2	14	16	6	67	Oc 85	Ja 51	85	85	.....	.....	.....	96,811,473
54	Enameling.	9	158	9	7	2	4	136	De 177	Fe 97	178	157	17	4	.....	709,514
55	Engines, steam, gas, and water.	25	10,335	6	526	803	355	8,045	Ja 9,821	Jy 7,785	8,784	8,003	180	1	.....	571,329
56	Engravers' materials.	5	98	2	14	11	12	59	De 60	Ja 52	64	63	.....	1	.....	256,314
57	Engraving and die-making.	36	837	35	24	40	25	713	Au 826	Ja 600	804	767	27	9	1	47,823,655
58	Engraving, steel and copper plate, including plate printing.	33	1,462	21	98	74	80	1,189	De 1,286	Ap 1,109	1,281	774	436	25	46	287,140
59	Engraving, wood.	11	259	10	17	48	13	171	Jy 185	Ja 159	168	167	.....	1	.....	2,473,332
60	Envelopes.	17	1,650	5	57	96	98	1,394	De 1,485	Ap 1,306	1,487	600	844	17	20	3,994,921
61	Explosives.	9	627	.....	39	99	35	454	Ja 491	De 412	446	426	20	.....	.....	4,294,458
62	Fancy articles, not elsewhere specified.	54	1,140	52	60	70	51	907	.....	.....	939	291	605	8	35	4,294,458
63	Metal novelties.	12	298	10	17	18	13	240	No 300	Ja 180	247	151	90	.....	6	1,706,175
64	Paper novelties.	8	134	12	6	2	8	103	Oc 138	Ja 75	109	29	73	2	5	395,252
65	All other.	34	708	30	37	50	30	561	Se 633	Ja 503	583	111	412	6	24	214,312
66	Fertilizers.	12	1,120	3	39	104	21	933	Se 1,246	De 786	861	861	.....	.....	.....	1,096,611
67	Flags and banners.	9	142	3	7	8	9	112	Ja 126	Au 101	107	19	83	1	4	6,130,846
68	Flavoring extracts.	24	471	15	34	155	46	221	Jy 280	Fe 178	251	102	140	1	8	261,157
69	Flour-mill and gristmill products.	322	4,007	331	362	418	156	2,740	Se 2,967	Mh 2,507	2,983	2,938	45	.....	.....	799,968

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



[illegible]

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

[illegible]

<sup>3</sup> Same number reported for one or more other months.



## MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		16 and over.		Under 16.				
					Male.	Female.	Average number.	Number, 15th day of—		Total.	Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

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

															Dollars.
1	Food preparations, not elsewhere specified.	134	5,717	116	305	810	425	4,061	-----	4,125	2,790	1,305	3	21	20,949,577
2	Breadstuff preparations, cereals and breakfast foods.	9	350	4	16	46	33	251	Se 330 Fe 181	263	172	91	-----	-----	2,360,236
3	Lard compounds and other substitutes.	5	834	1	21	77	18	717	Au 930 Mh 341	755	577	178	-----	-----	4,928,572
4	Macaroni, vermicelli, and noodles.	25	518	51	20	35	30	382	Oc 459 Au 309	439	274	151	-----	14	1,410,220
5	Meat products, not elsewhere specified.	7	1,236	3	39	157	22	1,015	Mh 1,476 My 687	895	344	547	1	3	4,182,531
6	Peanut butter.	5	93	3	10	5	5	70	De 86 Fe 57	79	31	48	-----	-----	386,402
7	Sweetening syrups, other than cane.	5	381	1	27	42	12	299	Oc 357 Fe 238	342	294	48	-----	-----	3,089,396
8	All other, for human consumption.	57	975	47	84	132	99	613	Jy 645 My 583	641	418	217	2	4	5,083,961
9	For animals and fowls.	21	1,330	6	88	316	208	714	Fe 749 No 672	711	686	25	-----	-----	8,508,199
10	Foundry and machine-shop products.	870	55,196	503	2,751	3,908	2,153	45,879	Oc 1,782 Ja 676	51,742	49,817	1,641	267	17	191,005,914
11	Boiler shops.	39	1,774	33	60	103	38	1,510	Ja 1,761	1,770	1,761	9	-----	-----	6,040,376
12	Foundries.	110	13,297	48	521	500	250	11,064	De 13,952 Fe 10,342	14,178	13,787	343	47	1	34,557,499
13	Machine shops.	675	33,895	406	1,900	2,914	1,660	27,015	De 29,989 Ap 25,079	29,662	28,343	1,098	208	13	130,301,005
14	Machine shop and foundry combined.	46	6,230	16	240	385	201	5,383	Ja 6,378 My 4,590	6,132	5,026	101	12	3	20,106,434
15	Foundry supplies.	9	237	2	20	46	21	148	Ja 157 Ja 132	151	147	4	-----	-----	875,394
16	Fur goods.	123	981	123	60	62	57	670	No 766 Mh 598	742	392	350	-----	-----	3,586,070
17	Furnishing goods, men's.	34	1,942	22	70	188	96	1,566	De 876 Ja 694	1,704	183	1,499	5	17	4,525,170
18	Neckwear.	26	1,056	22	48	153	52	781	Oc 819 Fe 753	895	131	745	3	16	2,795,922
19	All other.	26	886	22	35	44	44	785	-----	809	52	754	2	1	1,729,248
20	Furniture.	289	14,374	186	680	755	459	12,204	-----	14,044	13,101	828	110	5	42,588,346
21	Wood furniture, including rattan and willow.	202	11,102	133	491	547	307	9,624	De 11,013 Ap 7,613	11,093	10,281	721	86	5	33,938,510
22	Metal furniture.	16	1,207	4	70	117	87	929	De 1,063 Fe 775	1,062	1,025	36	1	-----	4,003,707
23	Store and office fixtures.	68	2,065	49	119	91	65	1,741	No 1,870 Ja 1,579	1,889	1,795	71	23	-----	4,646,129
24	Furs, dressed.	4	68	1	8	1	1	57	Mh 72 Au 43	51	45	6	-----	-----	114,566
25	Galvanizing.	8	151	14	18	10	7	102	Ja 107 Jy 93	109	107	1	-----	-----	863,098
26	Gas and electric fixtures.	40	1,792	11	106	135	92	1,448	-----	1,633	1,218	365	35	15	4,462,083
27	Electric fixtures.	14	537	3	41	42	33	418	No 463 Ja 379	472	386	54	25	7	1,371,844
28	Combination gas and electric fixtures.	18	860	6	40	77	38	699	De 793 My 595	704	721	28	10	5	2,037,054
29	Gas and other fixtures.	8	395	2	25	16	21	331	No 389 Jy 271	397	111	283	-----	3	1,053,185
30	Gas, illuminating and heating.	70	7,737	-----	282	1,972	1,053	4,430	Ja 4,986 Se 4,258	4,479	4,435	44	-----	-----	172,854,890
31	Gas machines and gas and water meters.	21	948	3	46	163	71	665	-----	737	727	9	1	-----	3,934,417
32	Gas meters and water meters.	4	121	-----	13	17	8	83	Au 99 Mh 63	94	89	5	-----	-----	489,030
33	All other.	17	827	3	33	146	63	582	Au 652 Ap 487	643	638	4	1	-----	3,444,787
34	Glass.	14	4,370	4	160	76	65	4,065	Fe 4,291 De 3,825	4,187	3,670	481	31	5	18,008,050
35	Glass, cutting, staining, and ornamenting.	49	712	27	52	18	38	577	-----	601	427	156	14	4	1,057,876
36	Decalcomania work on glass.	4	37	2	3	-----	2	30	No 40 Ap 24	39	37	2	-----	-----	41,340
37	All other.	45	675	25	49	18	36	547	Au 573 Ja 520	592	390	154	14	4	1,016,536
38	Gloves and mittens, cloth, not including gloves made in textile mills.	14	781	10	21	26	21	703	De 864 Ap 563	807	98	648	9	52	1,450,703
39	Gloves and mittens, leather.	31	1,379	27	49	38	26	1,230	De 1,428 Ap 1,132	1,284	358	772	75	70	2,241,681
40	Glue, not elsewhere specified.	11	1,831	6	64	138	40	1,583	Fe 1,065 Jy 1,443	1,587	1,408	179	-----	-----	7,501,781
41	Gold, leaf and foil.	6	155	3	11	1	7	133	De 135 Fe 131	135	71	56	5	3	117,098
42	Hair work.	19	228	14	16	26	11	161	Oc 170 Ja 148	164	41	121	-----	-----	472,612
43	Hand stamps.	27	337	19	36	20	29	233	Se 251 Fe 224	241	197	36	6	2	569,960
44	Hardware.	84	5,820	41	304	319	242	4,614	-----	5,670	4,703	789	70	8	20,137,969
45	Locks.	10	234	2	22	9	9	192	Au 227 Ja 125	221	102	26	4	-----	467,075
46	Builders' hardware.	20	1,932	12	79	115	65	1,661	De 2,093 My 1,399	2,005	1,572	412	20	1	6,317,846
47	Vehicle hardware.	6	146	3	15	6	7	115	Au 133 Ja 73	131	104	24	-----	3	339,076
48	All other.	48	3,508	24	188	189	161	2,946	De 3,192 My 2,783	3,213	2,835	328	46	4	13,013,972
49	Hat and cap materials.	7	53	5	8	3	2	40	(*) 40 (*) 40	40	15	23	1	1	115,832
50	Hats and caps, other than felt, straw, and wool.	47	844	51	49	50	15	679	Oc 788 Mh 528	745	455	285	2	3	1,674,493
51	Hats, fur-felt.	5	55	1	8	9	1	26	Se 38 Ja 34	34	21	13	-----	-----	140,288
52	Hats, straw.	12	246	12	24	9	10	191	No 229 Fe 155	229	68	160	-----	1	363,328
53	House-furnishing goods, not elsewhere specified.	51	1,114	32	89	98	52	843	-----	942	403	503	17	19	2,649,062
54	Comforts and quilts.	10	71	9	5	3	4	50	No 63 My 41	58	23	34	-----	1	258,251
55	Feather pillows and beds.	6	183	2	21	44	8	108	Oc 111 Ja 100	110	82	27	1	-----	885,717
56	Mops and dusters.	11	301	4	28	32	21	216	Oc 240 Mh 194	226	87	129	3	7	488,105
57	All other.	24	559	17	35	19	19	469	De 555 Ja 414	548	211	313	13	11	1,016,989
58	Ice, manufactured.	154	2,140	42	255	98	64	1,681	Au 2,303 Ja 1,084	1,592	1,572	20	-----	-----	17,697,626
59	Ink, printing.	11	143	6	22	23	13	79	De 88 Ja 72	88	85	1	2	-----	787,607
60	Instruments, professional and scientific.	33	4,200	22	122	189	240	3,021	Au 3,860 Ja 3,314	3,674	2,891	770	12	1	13,091,453
61	Iron and steel, blast furnaces.	5	2,436	-----	97	151	59	2,129	Ja 2,571 Oc 1,219	2,418	2,417	1	-----	-----	57,107,029
62	Iron and steel, steel works and rolling mills.	32	23,483	-----	935	1,873	498	20,177	Fe 25,795 Oc 13,330	21,706	21,576	124	6	-----	156,775,176
63	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	13	1,048	1	67	56	18	906	Ja 1,052 My 793	945	818	126	1	-----	4,152,854

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## MANUFACTURES—ILLINOIS.

47

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
1,305,103	1,686,538	4,161,741	72,654	249,194	861,401	70,703,334	727,951	94,240,307	13,809,022	18,767	6,499	240	100	.....	11,868	1,608	1	
103,580	150,900	203,390	400	2,725	27,064	4,102,056	72,020	4,930,870	756,194	3,385	760	40	.....	.....	2,585	.....	2	
68,884	135,791	818,807	.....	23,608	30,487	18,288,857	206,383	19,403,450	908,210	2,745	2,514	.....	.....	.....	231	294	3	
67,331	73,259	344,330	.....	20,405	21,030	2,042,044	69,337	3,080,557	660,170	1,532	162	.....	.....	.....	1,370	.....	4	
210,737	263,446	926,079	.....	48,224	151,597	8,823,085	70,826	11,532,810	2,038,005	774	147	.....	.....	.....	627	.....	5	
45,057	14,457	70,810	1,631	10,371	8,477	913,801	10,532	1,131,914	207,578	175	.....	.....	.....	.....	175	.....	6	
106,917	60,872	270,850	58	12,400	188,248	5,316,912	77,561	6,500,941	1,115,408	1,385	665	200	.....	.....	520	29	7	
432,951	401,161	660,643	39,825	91,206	170,976	9,341,356	83,034	13,042,206	3,017,816	1,414	401	.....	100	.....	763	580	8	
360,666	586,652	848,232	30,740	31,105	252,725	30,875,220	137,640	34,608,544	3,595,075	7,357	1,760	.....	.....	.....	5,597	705	9	
11,625,164	8,953,566	60,960,135	994,186	1,049,581	11,215,433	93,125,717	5,217,098	235,403,026	137,060,811	90,821	21,220	8,058	1,456	944	61,613	28,499	10	
415,208	257,104	2,122,612	27,290	18,145	603,318	4,104,670	149,223	4,702,546	5,871	733	1,900	62	.....	.....	3,176	.....	11	
2,228,713	1,016,220	16,719,023	123,622	101,488	1,794,455	18,580,191	2,502,552	152,100,714	31,026,071	25,250	6,000	4,443	60	245	14,502	11,137	12	
7,750,588	6,855,608	34,388,283	695,733	907,747	6,918,001	62,241,001	1,054,470	152,128,532	87,002,062	55,474	14,305	2,170	1,801	365	37,043	13,720	13	
1,230,655	824,634	6,730,217	147,532	22,201	1,811,750	8,138,856	610,844	22,058,032	13,300,232	10,220	3,002	145	33	134	6,822	3,003	14	
119,555	125,127	181,172	1,020	5,478	58,836	1,354,501	30,675	2,241,823	850,044	633	300	.....	150	.....	183	50	15	
241,099	152,624	1,098,805	43,167	154,490	110,223	4,500,988	15,067	8,112,008	3,780,585	158	700	.....	.....	.....	158	.....	16	
265,912	475,165	1,006,797	6,084	56,642	121,053	4,737,808	27,001	8,535,094	3,780,585	983	700	.....	.....	.....	283	177	17	
201,288	419,014	729,189	6,084	47,411	58,052	3,588,523	10,900	6,140,408	2,560,075	502	400	.....	.....	.....	162	177	18	
64,624	50,151	277,608	.....	9,231	63,001	1,138,985	16,101	2,385,590	1,230,510	421	300	.....	.....	.....	121	.....	19	
2,703,944	2,053,405	14,142,456	018,989	535,551	1,487,455	27,523,021	606,415	60,770,771	32,580,432	23,467	15,003	330	211	120	7,803	4,786	20	
1,985,323	1,551,082	11,088,808	596,856	306,370	1,232,494	21,174,075	513,102	47,144,500	25,450,600	18,423	13,040	330	57	60	4,940	4,504	21	
324,755	297,117	1,068,664	7,411	23,349	72,471	2,000,900	40,504	5,715,541	2,675,137	1,318	203	.....	23	.....	1,002	.....	22	
398,860	204,300	1,984,984	14,722	145,832	182,490	3,358,349	103,710	7,910,064	4,448,506	3,726	1,670	.....	131	70	1,855	222	23	
18,021	2,706	79,378	.....	2,360	971	31,044	5,124	194,160	158,001	81	.....	.....	40	.....	44	.....	24	
80,227	23,343	129,384	.....	350	35,270	300,001	27,000	780,071	451,171	94	25	.....	.....	.....	69	.....	25	
350,756	281,017	1,490,881	2,010	111,623	63,216	3,244,004	84,520	6,757,420	3,458,806	2,034	1,125	.....	10	160	739	406	26	
129,415	108,296	305,714	.....	37,923	16,068	779,080	18,001	2,002,292	1,204,200	503	250	.....	.....	.....	343	.....	27	
130,704	125,607	819,221	.....	54,840	37,392	1,380,220	38,345	3,317,437	1,808,872	1,330	875	.....	.....	160	205	406	28	
90,637	47,114	275,046	2,010	18,414	9,226	1,054,785	27,280	1,437,700	355,635	111	.....	.....	10	.....	101	.....	29	
780,539	3,265,556	5,372,255	164,478	347,309	1,492,615	3,178,804	14,713,208	36,030,423	10,038,261	21,912	14,809	0,187	226	.....	630	1,133	30	
134,565	343,653	714,142	1,300	14,774	36,760	1,407,785	27,331	2,063,147	1,444,031	454	30	.....	128	.....	296	59	31	
35,110	41,966	105,896	1,300	3,120	4,721	137,700	4,198	371,801	220,987	160	.....	.....	115	.....	51	59	32	
99,455	301,687	608,246	.....	11,654	32,030	1,300,070	17,133	2,591,250	1,214,044	288	30	.....	13	.....	245	.....	33	
416,880	131,420	3,740,590	.....	3,851	1,485,406	3,451,127	2,108,152	18,244,717	12,085,438	10,504	4,457	2,500	1,000	.....	2,637	2,822	34	
141,539	65,657	485,118	532	50,707	14,741	1,150,354	22,801	2,307,573	1,134,328	221	.....	.....	.....	.....	221	.....	35	
8,183	2,378	35,765	.....	5,120	101	22,450	902	88,267	64,800	33	.....	.....	.....	.....	33	.....	36	
133,350	63,279	449,353	532	45,677	14,580	1,127,805	21,800	2,210,316	1,000,622	188	.....	.....	.....	.....	188	.....	37	
68,494	44,816	365,024	15,082	10,756	80,718	1,265,570	13,011	2,413,310	1,134,729	254	80	.....	.....	.....	174	15	38	
164,867	80,809	1,023,855	1,547	18,910	146,765	3,047,107	20,882	5,422,794	2,348,745	370	50	.....	.....	.....	320	15	39	
196,323	214,536	1,547,366	.....	5,900	222,952	4,417,400	522,110	9,157,094	4,217,515	7,477	5,020	2,400	.....	.....	57	6,623	40	
26,491	8,117	130,990	6,369	2,880	2,010	253,153	2,813	470,020	214,403	34	.....	.....	.....	.....	34	.....	41	
39,622	34,526	101,565	2,842	13,681	1,110	297,140	5,328	610,063	308,495	57	50	.....	.....	.....	7	.....	42	
127,368	56,019	250,056	9,600	20,088	10,503	349,255	10,859	1,013,790	650,058	165	35	.....	.....	.....	130	.....	43	
1,023,612	870,848	5,017,321	11,952	103,118	1,204,847	8,373,315	301,950	22,442,043	13,707,372	9,551	1,840	35	45	523	7,108	050	44	
68,487	39,179	188,030	.....	8,380	6,701	242,187	8,303	698,034	448,354	173	.....	.....	.....	.....	473	.....	45	
280,180	355,158	1,850,998	.....	40,660	550,711	2,315,007	93,655	7,041,110	4,632,448	5,107	690	.....	.....	400	4,017	150	46	
71,508	9,989	130,337	.....	12,872	6,092	333,066	4,945	733,622	305,011	118	.....	.....	.....	.....	103	.....	47	
597,437	466,522	3,447,956	11,952	41,107	640,743	5,433,055	194,963	13,068,077	8,290,950	4,153	1,150	35	30	123	2,815	500	48	
7,925	4,018	36,219	.....	4,304	1,147	257,107	1,083	380,571	122,381	18	.....	.....	.....	.....	18	.....	49	
144,388	159,749	896,882	1,071	45,541	16,717	2,331,070	14,180	4,190,613	1,842,363	136	.....	.....	.....	.....	136	.....	50	
24,158	23,995	44,192	18,000	4,830	4,142	187,553	1,674	344,360	155,150	40	25	.....	.....	.....	15	.....	51	
60,763	35,143	194,410	.....	24,503	2,168	536,280	5,854	928,200	366,000	26	.....	.....	.....	.....	26	.....	52	
281,055	257,788	701,463	7,018	87,664	110,074	3,032,720	40,911	6,336,794	2,363,157	1,247	365	.....	30	.....	852	67	53	
11,522	10,603	53,054	1,000	11,400	5,676	330,678	2,038	522,252	183,536	55	.....	.....	.....	.....	55	.....	54	
110,331	110,739	119,709	.....	26,922	30,657	916,721	10,474	1,604,333	641,138	539	345	.....	.....	.....	194	22	55	
62,345	85,082	155,237	.....	10,091	6,650	640,093	4,016	1,155,314	510,395	116	20	.....	.....	.....	96	45	56	
60,807	51,304	372,863	6,018	30,161	76,091	2,008,424	18,383	3,054,895	1,028,088	537	.....	.....	.....	.....	507	.....	57	
130,353	153,305	2,226,295	2,865	23,503	464,795	908,532	1,645,985	10,093,203	7,578,745	41,110	10,005	2,185	27	30	22,773	1,278	58	
130,555	82,010	103,142	.....	20,735	24,274	743,004	13,881	1,391,492	633,541	980	.....	.....	.....	.....	980	.....	59	
594,848	463,655	4,258,345	2,444	54,215	562,005	5,851,084	128,059	14,880,780	8,808,046	3,048	150	.....	25	.....	2,873	410	60	
393,135	386,593	3,846,014	.....	2,920,894	30,839,824	20,689,034	64,702,411	13,235,653	80,118	54,670								



TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	Iron and steel, doors and shutters....	7	530	.....	31	34	11	460	Ja	528	Se	427	403	403	.....	.....	Dollars.		
2	Iron and steel forgings, not made in steel works or rolling mills.	24	2,038	2	144	113	51	2,328	Ja	2,826	Je	1,745	2,324	2,277	47	.....	1,213,798		
3	Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.	7	218	4	15	29	7	163	No	180	Fe	154	179	124	55	.....	12,085,072		
4	Iron and steel, tempering and welding.	18	151	17	16	13	9	96	De	110	Mh	86	109	107	1	.....	1,094,384		
5	Japanning.	3	91	2	5	2	2	80	My	86	Fe	70	87	81	5	.....	344,927		
6	Jewelry.	78	1,328	68	77	108	83	992	De	1,113	Mh	916	1,110	889	209	12	46,034		
7	Jewelry and instrument cases.	8	247	4	15	1	5	222	No	230	Ja	211	230	100	120	0	5,098,596		
8	Knit goods.	58	5,538	31	147	104	161	5,095	No	5,213	Ap	4,940	5,148	1,441	3,520	59	250,411		
9	Labels and tags.	13	914	7	42	89	82	694	Oc	768	Jy	612	750	448	207	4	16,459,583		
10	Lamps and reflectors.	27	1,479	27	78	63	121	1,190	De	1,490	Mh	952	1,511	827	645	15	2,473,797		
11	Lapidary work.	4	57	1	7	3	5	41	Je	45	Ja	36	43	39	2	24	2,888,862		
12	Leather goods, not elsewhere specified.	41	836	27	43	46	33	687	No	758	Mh	638	735	519	181	18	121,740		
13	Leather, tanned, curried, and finished.	29	4,801	25	150	137	55	4,434	No	4,694	Ja	4,144	4,617	4,046	536	13	1,630,633		
14	Lime.	11	443	11	24	23	7	378	Jy	417	Ja	304	387	386	1	.....	38,069,464		
15	Liquors, distilled, grain alcohol.	6	389		17	36	6	327	Oc	433	Jy	221	450	450		.....	1,542,543		
16	Liquors, malt.	61	3,646	5	337	441	67	2,796	Jy	3,243	De	2,273	2,280	2,245	32	3	6,529,144		
17	Liquors, vinous.	4	4	4													43,631,252		
18	Lithographing.	31	1,380	10	91	131	65	1,083	De	1,133	Ja	1,085	1,135	870	247	7	3,425		
19	Looking-glass and picture frames.	60	2,282	37	124	104	73	1,944	Se	2,097	Ja	1,597	2,022	1,997	270	49	4,187,623		
20	Lumber and timber products.	163	1,949	187	78	45	23	1,616	De	2,190	Ap	1,240	2,457	2,315	141	1	3,257,085		
21	Lumber, planing-mill products, not including planing mills connected with sawmills.	269	6,320	176	414	408	175	5,147	No	5,786	Fe	4,216	5,603	5,518	96	49	5,428,864		
22	Machine tools.	28	3,841	6	145	278	139	3,273	De	3,751	Je	2,713	3,764	3,624	138	2	24,059,351		
23	Malt.	10	445		34	26	7	378	Au	528	Ja	244	406	406			14,323,537		
24	Marble and stone work.	247	1,619	266	117	109	46	1,081	My	515	Ja	383	1,202	1,197	3	2	7,385,657		
25	Monuments and tombstones.	169	809	186	51	76	31	665	My	515	Ja	383	484	482	1	.....	5,517,647		
26	All other.	78	810	80	66	33	15	616	Jy	728	Ja	430	718	715	2	1	2,450,157		
27	Mattresses and spring beds, not elsewhere specified.	72	1,901	64	80	145	41	1,571	Oc	1,873	Ja	1,103	1,799	1,304	450	35	3,067,490		
28	Millinery and lace goods, not elsewhere specified.	121	5,460	106	190	178	156	4,830					5,115	1,041	3,976	24	4,084,908		
29	Embroideries.	42	824	44	56	40	26	658	Oc	770	Ja	533	680	119	541	4	5,942,807		
30	Trimmed hats and hat frames.	50	4,099	39	108	116	101	3,735	Fe	4,165	Je	3,088	3,987	837	3,083	13	1,021,727		
31	Dress and cloak trimmings, braids, and fringes.	4	79	4	3		2	70	Au	77	Mh	61	66	14	50		4,219,503		
32	Women's neckwear.	7	177	2	9	11	11	144	Oc	152	Ja	133	144	14	129	1	96,448		
33	All other.	18	281	17	14	11	16	223	No	245	Fe	204	238	57	173	6	195,028		
34	Mineral and soda waters.	275	1,254	293	121	84	37	710	Au	998	Ja	515	701	650	34	17	410,101		
35	Minerals and earths, ground or otherwise treated.	26	917	5	69	67	82	694	Se	757	Ap	645	726	718	8		4,542,015		
36	Mirrors, framed and unframed, not elsewhere specified.	12	283	16	20	9	15	223	Oc	285	Jy	125	266	262	4		5,364,919		
37	Models and patterns, not including paper patterns.	88	649	98	34	10	17	490	De	533	Ja	432	530	504	13	12	962,280		
38	Motorcycles, bicycles, and parts.	7	1,179	.....	33	35	29	1,082	My	1,262	Fe	416	1,137	1,097	40		689,598		
39	Mucilage, paste, and other adhesives, not elsewhere specified.	13	170	8	18	17	24	103	Jy	117	Mh	87	104	68	43		2,456,460		
40	Musical instruments and materials, not specified.	23	766	8	35	27	27	669	No	735	Ja	584	717	635	55	18	488,881		
41	Musical instruments, organs.	10	317	2	15	13	14	273	Jy	291	Ja	242	290	246	39	3	1,416,943		
42	Musical instruments, pianos.	33	7,781	7	168	337	278	6,991	Oc	7,439	Ja	6,417	7,539	6,629	721	129	9	925,285	
43	Musical instruments, piano and organ materials.	9	1,402	1	41	19	30	1,311	Au	1,391	Ja	1,214	1,305	808	465	20	42,005,469		
44	Needles, pins, and hooks and eyes.	3	465	.....	20	57	37	351	No	381	Se	338	382	108	195	7	2,473,266		
45	Oil, not elsewhere specified.	16	266	4	37	84	40	101	Au	118	Ja	79	121	119	5		1,263,708		
46	Oleomargarine and other butter substitutes.	9	1,693	.....	85	170	127	1,311	Ja	1,594	Je	947	1,528	1,253	269		2,081,227		
47	Optical goods.	22	544	8	40	59	55	376	Mh	420	Jy	277	397	298	91	6	12,506,017		
48	Paints.	50	4,365	15	271	938	441	2,640	De	3,002	Ap	2,482	2,825	2,539	284	2	1,038,670		
49	Paper and wood pulp.	19	2,002		81	62	28	1,831	Jy	1,941	Mh	1,687	1,973	1,803	79	1	27,648,999		
50	Paper goods, not elsewhere specified.	20	786	4	56	117	66	543	Mh	610	No	475	539	340	188	3	13,928,744		
51	Patent medicines and compounds.	208	3,696	124	301	964	708	1,599	De	1,108	Ja	885	1,007	931	55	20	2,501,059		
52	Patent and proprietary medicines.	148	2,552	90	203	673	547	1,039	De	1,121	Ja	973	1,100	559	493	13	16,991,395		
53	Patent and proprietary compounds, not elsewhere specified.	60	1,144	34	98	201	161	560	Fe	654	Ap	502	575	283	275	5	11,915,328		
54	Paving materials.	32	1,136	11	73	71	22	959	My	1,131	Ja	611	980	980			5,076,067		
55	Perfumery and cosmetics.	75	1,390	40	129	112	399	710	De	815	Ja	605	815	207	574	10	7,923,102		
56	Petroleum, refining.	13	2,932	2	84	813	85	2,448	No	2,589	Ja	2,354	2,558	2,507	51		4,371,602		
57	Photographs and graphophones.	36	2,225	12	122	91	81	1,919	De	2,649	Ja	1,245	2,667	2,475	171	16	36,345,555		
58	Photo-engraving.	31	1,299	11	84	177	65	962	De	1,018	Ja	885	1,007	931	55	20	6,570,855		
59	Photographic apparatus.	12	790	5	48	89	47	601	No	671	Ja	508	643	548	95		1,711,406		
60	Photographic materials.	13	584	5	33	32	32	478	Ap	503	Se	451	442	221	213	8	1,509,950		
61	Pickles, preserves, and sauces.	68	2,731	44	151	183	98	2,255	Oc	1,288	Fe	915	2,718	1,345	1,347	10	11,008,502		
62	Preserves.	16	1,248	2	65	76	33	1,072	Oc	1,845	Ja	784	1,179	452	723		5,048,723		
63	Pickles and sauces.	52	1,483	42	86	107	65	1,183	Oc	1,845	Jy	784	1,639	893	624	10	6,859,720		
64	Pipes, tobacco.	5	129	2	8	16	5	98	De	104	Jy	93	104	73	30		438,869		
65	Plumbers' supplies, not elsewhere specified.	18	2,576	7	112	233	128	2,096	No	2,493	Ap	1,704	2,490	2,263	222	5	11,588,348		
66	Pocketbooks.	10	122	9	9	11	10	83	No	111	Ja	67	90	59	40		252,604		
67	Pottery.	14	746	4	42	32	16	652	Ap	774	Au	459	770	624	140	5	2,760,691		

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> 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.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
136,923	50,481	642,835	4,225	14,195	16,322	1,268,411	20,301	2,367,992	1,079,280	500					500	1	
710,889	257,021	3,181,551	3,840	20,302	820,193	7,233,758	841,779	15,207,250	7,131,719	10,737	1,523	3,085	125		6,001	2,863	
46,480	48,449	174,633		2,050	20,541	846,843	18,345	1,414,908	549,720	428	75		65		288	3	
54,482	23,406	122,116	13,780	11,343	7,812	246,205	10,483	534,782	278,004	187	75				112	4	
16,540	3,730	65,046		6,450	330	10,853	5,214	136,148	111,081	22					22	5	
409,815	256,382	1,301,130	108,038	107,418	109,771	2,618,048	19,001	6,082,086	3,445,037	455	100		20		335	150	
63,851	7,871	181,247		11,115	17,414	329,061	4,240	697,719	369,512	130					130	7	
592,216	490,012	3,808,741	488,017	118,662	706,128	11,520,892	174,170	20,460,360	8,759,328	3,644	1,447		30		2,167	765	
221,850	229,419	3,027,388	10,787	38,808	133,004	1,205,883	24,627	3,428,419	2,107,900	637			298		330	14	
277,368	237,160	1,010,445	18,320	58,609	66,056	2,449,475	30,063	5,075,228	2,505,000	516					516	10	
16,100	7,305	52,218		4,740	0,710	82,002	1,448	3,021,681	1,613,422	25					25	11	
132,889	104,978	652,853	312	47,361	41,977	2,252,800	25,318	3,021,681	1,613,422	523	175				318	11	
1,082,667	419,945	5,246,080	411,113	30,248	1,233,875	42,130,911	512,322	60,323,659	17,071,420	14,620	8,494	2,890			3,242	9,390	
56,722	34,087	409,141		393	34,970	333,157	87,405	1,064,518	1,668	370					1,298	14	
104,201	53,748	360,127		13,240	51,200	3,548,174	234,102	4,821,200	1,038,834	4,504	3,200	200	20		1,015	1,057	
1,281,817	1,202,589	3,783,065	11,304	9,384	5,411,302	6,230,340	908,518	27,322,650	20,183,788	37,401	23,677	1,345			12,470	8,115	
410,608	440,517	1,373,085	157,540	82,837	112,157	2,100,658	41,283	6,014,000	3,770,825	1,170	127		30		1,019	130	
471,271	348,280	2,001,498	3,280	137,450	2,018,281	2,018,281	53,003	7,100,155	4,417,170	2,112	650				1,402	19	
351,572	94,819	1,073,356	32,711	32,489	210,241	2,018,281	53,003	6,330,180	3,358,806	8,311	7,672	79	63		507	1,380	
1,280,592	751,906	6,035,029	26,344	225,189	520,032	20,303,106	280,371	34,588,570	13,900,090	23,741	12,755	1,440	485	60	9,001	3,922	
650,595	646,123	4,410,243	6,693	19,046	503,000	4,582,312	173,007	15,008,000	10,252,087	5,707	1,905		12	10	3,774	1,000	
175,662	58,151	546,086	115	35,025	183,191	5,885,320	352,033	8,019,944	1,781,082	7,211	5,865	750			590	3,770	
268,395	201,902	1,498,329	74,030	66,395	49,445	3,373,004	137,722	7,442,720	3,031,150	6,089	1,265		629		4,105	90	
108,554	126,913	641,406	37,007	30,280	20,005	1,537,511	47,481	3,518,036	1,933,044	1,807	420		244		1,143	90	
159,841	75,049	856,863	37,023	27,115	20,350	1,830,303	90,241	3,024,740	1,908,106	4,282	845		385		3,052	26	
283,070	206,721	1,587,508	300	105,052	72,151	4,773,933	72,715	8,724,833	3,878,185	2,008	550		53		1,405	245	
666,331	608,422	4,466,165	58,528	264,544	200,532	10,037,472	91,974	10,848,622	9,119,170	1,262	605		5		502	400	
157,662	78,847	586,505	31,424	47,482	12,631	1,103,211	10,507	2,387,061	1,273,883	110			5		105	29	
433,829	440,106	3,520,153	3,507	185,436	185,327	8,711,706	74,025	15,007,056	6,881,837	1,018	605				353	400	
7,100	2,256	65,325	4,880	5,280	254	88,024	687	100,485	110,774	11					11	31	
38,243	44,686	125,392	16,073	9,587	9,053	257,047	1,019	638,708	379,742	32					32	32	
29,497	42,407	168,790	2,548	16,749	1,067	477,304	4,770	955,110	472,040	91					91	33	
236,870	102,202	709,670	8,678	69,500	107,590	2,310,005	68,123	5,231,749	2,843,631	1,471	433		75		993	5	
233,478	134,197	823,851	1,097	11,080	67,493	819,713	323,809	3,136,923	1,993,341	10,840	6,539	1,020	327	100	2,854	429	
52,177	30,910	274,121	1,443	20,718	35,500	1,106,300	15,134	1,791,300	900,017	407	200				147	9	
56,023	27,650	754,334	6,822	40,037	0,202	347,536	20,118	1,636,787	1,200,133	626			6		620	37	
216,698	44,500	1,320,104		97,615	73,000	1,937,440	35,097	4,852,039	2,878,602	1,370	925	270			175	905	
46,693	90,613			8,105	0,410	906,271	9,030	1,173,678	467,477	306					360	30	
170,550	62,404	694,716	5,732	22,234	37,112	773,058	20,256	2,170,915	1,371,601	628			35		593	40	
49,832	25,326	267,981	1,790	10,144	19,270	327,024	15,502	800,107	520,581	425	125				300	40	
924,736	887,240	7,654,467		119,170	1,145,210	12,018,605	308,050	30,848,147	17,803,480	8,421	5,485	600			2,330	2,008	
163,541	46,808	1,195,402	750	11,013	60,670	2,180,777	60,350	4,537,741	2,206,614	1,029	1,250		25		354	1,225	
223,075	159,092	284,358		10,009	49,037	738,352	18,067	1,041,030	1,184,611	103					193	44	
120,444	178,818	122,055	6,065	20,305	32,280	3,020,680	17,037	5,004,670	1,920,139	403	249				214	45	
378,608	470,502	1,638,234		30,300	1,088,597	37,050,295	183,218	44,255,812	7,013,299	3,040	2,655			25	990	1,367	
171,066	102,307	395,236	38,044	59,082	47,007	1,107,127	10,951	2,650,350	1,442,281	154					154	47	
1,200,322	2,110,035	2,650,880	1,708	82,007	502,709	20,040,877	584,030	43,061,094	13,430,181	11,836	4,785		75		6,075	3,021	
375,247	147,701	2,130,263		17,400	840,480	8,102,201	1,050,252	14,565,520	5,144,076	22,438	18,233	1,461	10	2,650	184	5,020	
300,080	309,175	507,520	2,000	38,611	288,797	2,072,047	28,081	5,589,028	2,587,928	756					756	50	
1,511,586	2,418,493	1,217,052	425,236	163,072	1,163,418	101,018	101,018	25,306,228	14,140,792	2,642	720		83	1	1,838	817	
871,878	1,719,912	758,697	411,022	110,777	1,014,013	6,332,770	61,912	10,406,017	10,881,820	1,204	465		1		720	611	
639,708	698,581	458,365	13,314	46,295	220,424	4,820,630	40,106	8,029,211	4,050,460	1,438	255		65		1,118	200	
232,586	117,816	1,111,842		35,624	43,601	716,010	289,711	3,092,549	2,085,019	17,020	5,629	1,203	170		10,018	54	
510,200	471,781	772,710	3,107	91,021	289,650	3,405,080	16,345	8,775,561	5,354,130	348					348	55	
396,508	677,877	3,483,872	5,583	2,780,108	50,590,881	3,502,477	64,548,642	12,841,682	10,406,284	5,106	3,457	228	75		1,349	5,107	
404,373	249,708	2,210,993	63,401	68,386	360,952	7,007,723	88,535	12,841,682	5,745,424	1,873	250				1,023	300	
389,975	367,783	1,464,361	47,018	93,111	631,305	38,252	4,159,036	3,490,070	3,490,070	511					511	58	
160,910	118,576	634,852		27,910	44,397	18,135	2,075,256	1,597,040	1,597,040	720					720	59	
92,343	84,565	392,210		27,769	97,823	1,470,338	18,668	2,013,632	1,234,636	611					611	59	
470,417	395,406	1,913,875	3,054	86,580	408,811	11,830,565	180,570	19,046,228	7,006,203	3,149	1,878		117		1,154	708	
223,028	170,387	813,818		65,603	155,335	6,020,403	112,018	9,812,819	2,779,738	1,302	010				302	213	
247,388	216,019	1,100,457	3,054	21,017	253,476	4,938,902	67,952	9,233,409	4,226,465	1,847	908				702	403	
45,518	38,479	97,472		13,036	160,570	5,610		456,011	209,831	1,543					153	64	
318,905	385,747	2,045,616	5,410	39,080	67,190	4,556,614	139,462	10,197,437	5,501,371	4,127	2,206		80		1,841	933	
63,260	27,031	82,130		8,680	1,750</												



## MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	23	242	16	19	14	11	182	De	373	Mh	85	287	227	59	1	.....	Dollars. 476,830	
2	Printing and publishing, book and job	1,240	28,861	1,021	1,540	2,290	2,371	21,639	.....	.....	.....	.....	23,775	17,386	5,518	514	357	70,260,836	
3	Job printing.....	1,065	25,059	923	1,225	1,446	1,077	20,388	De	22,194	Ap	19,093	22,419	16,412	5,162	491	354	53,872,001	
4	Book publishing and printing.....	14	591	4	37	100	34	410	De	435	Ja	397	441	296	143	2	.....	1,415,609	
5	Book publishing without printing.....	135	2,527	71	239	699	1,230	258	Oc	369	Fe	252	252	122	123	4	3	11,067,177	
6	Linotype work and typesetting.....	26	684	23	39	39	30	553	Se	617	Ja	483	663	556	90	17	.....	3,906,049	
7	Printing and publishing, music.....	20	241	18	22	24	66	111	De	126	Ja	99	124	64	56	4	.....	677,430	
8	Printing and publishing, newspapers and periodicals.....	1,204	19,604	891	1,544	3,612	3,437	10,120	.....	.....	.....	.....	10,579	8,037	1,847	607	88	54,099,750	
9	Printing and publishing.....	91	6,718	45	364	1,250	1,093	3,966	De	4,017	Ja	3,922	4,121	3,430	358	317	16	25,214,534	
10	Printing, publishing, and job printing.....	738	9,130	711	520	1,458	796	5,645	De	5,836	Ap	5,520	5,914	4,339	1,226	288	61	21,489,260	
11	Publishing without printing.....	375	3,755	135	600	904	1,548	509	No	547	Jy	478	544	268	263	2	11	7,398,956	
12	Printing materials.....	11	440	6	24	37	34	339	No	444	Ja	242	315	279	35	1	.....	5,288,897	
13	Pumps, not including power pumps.....	19	560	7	49	23	24	457	Oc	476	Je	439	366	332	34	.....	.....	1,712,733	
14	Pumps, steam and other power.....	10	597	2	43	49	30	473	De	544	Ap	432	544	538	.....	6	.....	2,397,642	
15	Refrigerators.....	9	349	4	16	12	8	309	Je	337	Ja	281	340	340	.....	.....	.....	898,984	
16	Regalia, and society badges and emblems.....	14	303	7	22	32	25	217	Ja	231	Ap	197	234	70	155	3	.....	567,729	
17	Roofing materials.....	25	3,618	1	159	539	197	2,722	De	3,125	Fe	2,074	3,164	3,029	133	2	.....	18,161,631	
18	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	20	795	5	49	52	39	650	Jy	752	Ja	532	750	581	165	3	1	2,790,374	
19	Saddlery and harness.....	183	1,241	206	46	69	33	887	Ja	1,042	Jy	782	906	939	56	1	.....	3,890,973	
20	Sausage, not made in slaughtering and meat-packing establishments.....	54	980	35	46	52	31	796	.....	.....	.....	.....	836	591	245	.....	.....	3,171,116	
21	Sausage.....	48	619	50	30	39	20	480	Jy	496	Fe	453	495	434	61	.....	.....	1,433,348	
22	Sausage casings.....	6	361	5	16	13	11	316	Jy	361	Fe	288	341	157	184	.....	.....	1,737,768	
23	Scales and balances.....	16	845	7	52	51	36	690	Mh	784	De	632	821	784	27	10	.....	2,917,400	
24	Saws, machine.....	24	2,081	10	128	54	78	1,811	No	1,993	My	1,672	2,017	1,727	278	12	.....	8,558,812	
25	Sewing machines and attachments.....	5	2,501	2	76	280	177	1,960	De	2,275	Jy	1,438	2,276	2,054	194	27	1	8,115,991	
26	Shipbuilding, wooden, including boat building.....	9	139	8	5	3	1	122	Ja	181	Au	90	141	141	.....	.....	.....	479,365	
27	Shirts.....	30	1,002	13	56	49	42	842	De	920	Ja	786	941	159	765	1	16	2,304,813	
28	Show cases.....	9	250	12	16	12	5	205	De	226	Ja	164	228	218	8	2	.....	611,000	
29	Signs and advertising novelties.....	109	2,846	76	189	452	246	1,853	.....	.....	.....	.....	2,103	1,161	863	36	43	6,507,982	
30	Signs, electric and other.....	69	841	52	86	182	58	563	De	597	Ja	500	647	566	78	3	.....	2,728,484	
31	Advertising novelties.....	49	1,905	24	103	270	188	1,320	De	1,453	Ja	1,111	1,456	595	785	33	43	3,779,498	
32	Silversmithing and silverware.....	5	53	3	9	2	3	36	Oc	42	Ja	33	41	40	1	.....	.....	111,466	
33	Slaughtering and meat packing.....	72	62,090	31	1,614	5,541	1,625	54,179	Ja	65,114	My	50,048	53,973	47,248	6,703	17	5	430,375,561	
34	Smelting and refining, zinc.....	7	4,506	110	148	24	4,224	Ja	4,791	No	3,622	4,083	4,084	1	.....	.....	.....	20,894,439	
35	Smelting and refining, not from the ore.....	17	557	16	24	25	13	479	Se	516	Ja	440	519	512	6	1	.....	4,029,477	
36	Soap.....	29	3,039	10	123	462	174	2,270	Se	2,507	Mh	1,959	2,493	1,530	892	12	59	14,907,810	
37	Sporting and athletic goods.....	33	602	21	43	37	30	471	De	572	Jy	409	581	431	141	4	5	1,533,149	
38	Springs, steel, car and carriage, not made in steel works or rolling mills.....	12	1,324	3	61	84	72	1,104	Oc	1,222	Ja	985	1,182	918	226	16	22	5,315,541	
39	Stamped and enameled ware, not elsewhere specified.....	22	2,733	3	74	114	92	2,450	De	2,797	Ja	1,824	2,812	1,092	791	25	4	12,034,562	
40	Stationery goods, not elsewhere specified.....	32	2,180	20	109	224	159	1,668	De	2,105	Ap	1,451	2,109	1,162	908	13	26	7,623,135	
41	Statuary and art goods.....	15	513	9	24	31	11	438	De	493	Ja	394	494	477	13	4	.....	822,876	
42	Steam fittings and steam and hot-water heating apparatus.....	28	11,588	4	199	1,104	353	9,928	.....	.....	.....	.....	12,069	11,212	882	5	.....	29,181,052	
43	Radiators and cast-iron heating boilers.....	8	666	1	26	68	26	545	De	788	Ja	311	787	786	.....	1	.....	2,647,963	
44	All other.....	20	10,922	3	173	1,036	327	9,383	De	11,311	Au	5,938	11,312	10,426	882	4	.....	26,533,089	
45	Steam packing.....	19	549	7	37	81	39	385	No	499	Ja	318	496	304	145	20	27	2,036,870	
46	Steel barrels, drums, and tanks.....	4	268	2	21	24	19	202	De	241	Ap	145	241	222	19	.....	.....	1,491,895	
47	Stencils and brands.....	5	18	.....	.....	.....	.....	13	De	14	Mh	12	15	12	1	2	.....	20,412	
48	Stereotyping and electrotyping.....	26	884	10	72	68	28	706	No	750	Ap	527	741	724	6	11	.....	1,417,930	
49	Stoves and hot-air furnaces.....	56	5,841	9	298	411	243	4,880	.....	.....	.....	.....	5,310	5,049	10	251	.....	18,379,532	
50	Stoves and ranges.....	41	5,189	6	239	367	211	4,366	No	4,936	Ja	2,823	4,756	4,500	9	247	.....	16,555,666	
51	Hot-air furnaces.....	15	652	3	59	44	32	514	Oc	588	Fe	474	554	549	1	4	.....	1,823,866	
52	Stoves, gas and oil.....	13	774	2	40	74	26	632	No	810	Ja	491	821	748	71	2	.....	3,858,123	
53	Structural ironwork, not made in steel works or rolling mills.....	115	4,908	47	356	555	160	3,790	Ja	4,348	My	3,457	4,049	4,044	5	.....	.....	19,594,391	
54	Sulphuric, nitric, and mixed acids.....	3	1,032	.....	32	81	44	875	Oc	1,008	My	727	920	918	2	.....	.....	7,577,182	
55	Tinware, not elsewhere specified.....	28	6,669	14	168	350	210	5,927	Jy	6,649	De	5,482	5,495	3,609	1,855	20	11	40,017,260	
56	Tobacco, cigars and cigarettes.....	1,182	4,908	1,312	104	103	26	3,363	.....	.....	.....	.....	3,972	2,673	1,243	44	12	5,137,179	
57	Cigars.....	1,173	4,893	1,305	103	102	25	3,358	De	3,648	Se	2,671	3,965	2,668	1,242	43	12	5,122,770	
58	Cigarettes.....	9	15	7	1	1	1	5	(*)	5	(*)	5	7	6	1	1	.....	14,409	
59	Tools, not elsewhere specified.....	114	3,708	74	245	177	214	2,998	.....	.....	.....	.....	3,336	3,188	134	11	3	10,717,368	
60	Carpenters' tools, not elsewhere specified.....	6	194	3	11	15	11	154	De	201	Je	113	212	203	9	.....	.....	423,318	
61	Machinists' tools.....	57	2,381	38	155	97	132	1,959	De	2,125	Ap	1,777	2,124	2,027	91	4	2	6,526,354	
62	All other.....	51	1,133	33	79	65	71	885	Ja	1,003	My	724	1,000	958	34	7	1	3,767,696	
63	Toys and games.....	36	753	34	41	30	37	611	No	791	Ja	365	802	399	359	28	16	1,094,674	
64	Trunks and valises.....	31	1,495	58	85	130	41	1,181	De	1,299	Ja	1,039	1,812	1,101	201	4	6	3,639,108	
65	Type founding.....	61	16	3	1	.....	.....	12	(*)	12	(*)	12	13	11	2	.....	.....	28,002	

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.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam engines (not turbines).	Steam turbines.	Internal combustion engines.	Water power. <sup>1</sup>	Rent- ed. <sup>2</sup>	

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

Dollars. 49,582	Dollars. 30,040	Dollars. 195,879	Dollars. 11,583	Dollars. 3,632	Dollars. 3,736,476	Dollars. 12,525	Dollars. 4,733,416	Dollars. 984,415	206	84	122	1					
6,124,480	6,236,738	27,380,408	5,527,064	1,065,807	1,424,260	41,075,220	815,520	110,886,458	68,305,709	23,065	4,136	442	94	18,393	3,784	2	
4,655,703	3,361,101	25,804,264	1,006,826	1,080,787	1,275,110	30,332,048	775,226	92,532,447	52,125,173	22,487	4,136	442	94	17,815	3,784	3	
153,677	341,444	469,789	40,633	60,728	36,737	817,281	11,937	2,521,467	1,692,240	388				388		4	
833,220	2,455,665	217,212	4,418,639	184,667	102,304	1,330,607	3,918	14,301,220	12,000,005	16				10		5	
151,989	75,528	889,203	52,806	30,715	10,109	195,293	24,430	1,831,324	1,611,502	174				174		6	
52,583	93,053	112,172	157,121	20,495	36,253	375,920	3,287	1,211,810	832,003	7				7		7	
5,564,915	9,534,888	11,407,047	6,265,024	1,087,750	2,176,112	20,440,143	544,770	88,945,060	58,961,038	14,037	2,067		531	0	10,833	2,248	8
1,744,740	3,718,147	4,069,591	360,249	189,182	1,439,425	14,914,807	217,200	36,027,313	20,895,107	5,253	615		5	4,633	275	9	
1,379,720	2,654,507	5,885,304	300,020	501,232	287,999	10,058,025	305,086	26,641,350	16,278,217	8,423	1,752		486	6	0,179	1,967	10
2,440,449	3,162,234	552,152	5,603,846	337,336	448,688	4,467,210	22,394	26,277,288	21,787,084	361	300		40	21	6	11	
103,243	142,605	300,157		45,232	81,569	560,448	28,953	1,812,370	1,102,075	719			45	674		12	
157,622	66,815	523,217	2,849	9,431	68,497	615,305	22,994	1,853,118	1,214,819	806	105		40	501	100	13	
161,815	72,560	558,603	1,200	15,386	209,785	768,780	28,255	2,223,040	1,426,005	925	275			650	203	14	
58,063	19,147	325,322	4,723	6,992	20,147	375,815	10,678	1,088,255	811,762	455	125	206		124		15	
61,528	45,622	169,983	6,191	13,523	20,612	471,530	5,221	937,141	460,300	97				97		16	
563,691	1,167,219	3,120,209	156,263	8,753	334,654	16,688,437	829,630	27,561,165	10,043,089	9,425	4,754	60	1,920	2,091	5,391	17	
260,824	157,785	676,524		11,073	115,225	1,892,770	90,730	4,134,804	2,151,304	2,460	450		10	2,000		18	
153,678	137,079	1,058,919	150	61,287	90,334	4,501,000	28,460	7,032,460	2,502,100	606	120		13	473	105	19	
176,037	94,969	1,177,245	200,000	45,106	131,220	7,453,970	78,873	16,063,899	2,551,047	1,470	101		15	1,354		20	
135,742	73,173	672,139	200,000	30,671	98,241	6,254,948	71,800	8,100,721	1,773,073	1,381	101		15	1,205		21	
40,295	21,796	505,156		14,435	32,979	1,170,631	7,073	1,063,178	777,074	89				39		22	
146,954	94,715	914,463		58,060	178,995	1,238,545	31,730	3,206,909	1,933,634	1,170				1,170		23	
432,868	159,335	2,085,322	7,548	43,646	321,597	2,492,460	105,691	6,016,907	4,018,756	3,128	900		12	2,216	344	24	
200,651	551,199	2,306,412		1,500	137,756	2,287,774	89,458	7,160,753	4,780,751	2,413	1,800	153		460	908	25	
18,871	10,237	119,673		4,832	1,426	209,189	5,956	461,225	246,080	355	166		9	180		26	
232,895	155,916	647,969	13,741	71,546	66,724	2,347,138	13,920	4,190,350	1,838,292	228	80			148	65	27	
48,167	18,283	214,091	2,356	16,391	6,410	463,765	6,876	1,026,844	550,203	355	155			200	32	28	
535,135	745,158	1,064,902	117,004	88,818	121,061	2,044,547	81,668	8,246,735	5,220,540	1,383	315		48	1,020	11	29	
109,528	128,592	737,437	11,168	49,273	15,318	1,150,099	27,076	2,643,781	1,465,700	624	315			309	10	30	
365,607	610,566	927,465	100,730	39,545	105,743	1,791,508	53,672	5,002,954	3,754,774	750			48	711	1	31	
10,228	11,497	47,044		11,051	685	61,443	1,110	149,788	87,235	46				46		32	
5,302,197	9,852,654	79,982,535	17,275	201,200	4,094,287	1,136,106,748	6,843,744	1,284,103,010	141,152,524	86,636	51,459	10,193		24,984	33,242	33	
417,080	320,331	4,993,880		360,670	15,812,246	2,644,012	24,953,952	6,500,704	10,796	10,747	5,667	140		3,242	7,050	34	
110,244	60,166	637,087		20,220	50,642	9,181,613	134,418	11,233,227	1,917,106	1,610	900		18	692	675	35	
447,811	837,439	2,306,407	10,654	51,278	156,780	10,083,004	400,004	25,733,832	6,249,924	2,578	1,050		25	1,503	1,095	36	
149,222	67,207	490,484	9,515	27,808	62,004	1,134,308	28,799	2,309,768	1,146,101	526			2	524		37	
447,911	209,475	1,133,757		47,502	582,581	3,616,632	108,544	6,937,499	3,212,323	1,797	930		120	747	308	38	
339,797	302,611	2,463,020	14,977	70,171	302,167	4,289,735	192,553	9,215,632	4,733,344	3,669	870		139	2,660	175	39	
451,362	573,886	1,549,716	60,209	61,336	936,991	3,170,611	53,800	8,950,508	5,729,178	1,366		100	28	1,238	109	40	
63,351	46,477	520,316	7,949	18,108	21,106	396,980	14,019	1,640,453	1,220,448	160	60			100	225	41	
957,396	2,351,802	12,097,069	15,832	105,122	678,456	22,413,820	1,046,418	43,910,561	20,480,323	22,577	4,713	2,630	12	15,222	3,915	42	
125,867	150,060	712,814		6,499	80,618	1,823,066	131,878	3,608,461	1,743,517	879	270	185		424	410	43	
831,530	2,201,742	11,384,275	15,832	98,923	597,838	20,590,754	914,540	40,242,100	18,736,806	21,698	4,443	2,445	12	14,798	3,505	44	
175,494	90,117	393,195		24,740	137,405	1,008,753	22,378	2,358,471	1,327,340	567	100		60	407		45	
109,534	43,718	184,652		20,768	103,498	900,626	5,187	1,839,626	864,913	198	35			163		46	
352,088	138,016	1,055,175	18,355	76,837	121,113	576,204	61,421	3,283,617	2,645,032	1,740				7		47	
1,097,433	1,099,996	6,536,908		51,189	764,904	8,141,444	368,885	22,522,771	14,012,442	0,713	2,277		117	1,740		48	
889,127	1,008,522	5,868,924		36,753	697,627	6,739,315	335,957	19,334,302	12,250,120	0,070	2,277		117	3,676	1,121	49	
208,306	91,474	608,044		14,433	67,337	1,402,120	32,928	3,188,379	1,753,322	643				643		50	
129,826	195,610	747,317	1,000	11,123	102,481	2,123,097	50,016	4,015,801	1,841,848	805	575		5	223	120	51	
1,289,229	1,233,650	5,003,026	154,237	101,691	451,552	16,247,842	322,472	27,586,074	11,015,760	11,803	5,360	40	206	0,197	6,952	52	
182,464	181,271	1,478,760			168,506	1,898,106	329,839	5,056,584	2,828,039	6,050	1,070			4,086		53	
655,348	753,798	6,528,028	3,963	47,539	1,421,155	28,820,596	340,833	42,832,770	13,671,341	0,754	3,147			3,607	2,248	54	
182,050	163,091	2,976,365	4,634	192,965	1,254,425	6,295,208	42,495	11,827,472	6,480,760	70				70		55	
180,056	160,601	2,960,685	4,634	190,138	1,245,795	6,276,226	42,187	11,781,562	6,463,140	72				72		56	
2,000	2,400	6,680		2,827	8,630	18,082	308	45,010	26,620	4				4		57	
842,554	687,585	3,725,957	56,029	139,858	679,838	3,994,889	364,053	12,042,060	7,884,824	6,514	221	2,120	100	210		58	
22,154	26,553	175,054	230	1,066	4,343	129,051	11,293	432,430	301,080	216			43	173		59	
520,740	470,259	2,465,277	15,634	85,615	328,234	2,402,678	251,634	7,239,911	4,585,209	3,691		2,120	42	1,370	1,871	60	
290,680	190,773	1,085,626	40,765	52,277	347,261	1,471,360	101,129	4,370,925	2,708,439	2,697	221		24	2,302		61	
75,114	63,197	489,968	4,504	35,857	11,253	1,010,181	19,247	2,130,968	1,101,540	475			8	467		62	
358,042	339,651	1,482,445	1,500	88,166	131,032	3,824,742	28,608	7,292,002	3,439,462	769	255			451	181	63	
2,006		10,232		2,400	1,408	6,244	601	35,773	25,028	9				9		64	

<sup>2</sup> Same number reported for one or more other months.<sup>4</sup> Same number reported throughout the year.



MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

[illegible]

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

																					Dollars.
1	Typewriters and supplies.	11	2,287	5	65	75	483	1,629	Jy	1,770	Se	1,483	1,787	1,307	468	6	6				4,988,847
2	Typewriting materials.	7	799	1	22	27	15	734	Je	816	Ja	563	786	418	304	1	3				1,080,264
3	Varnishes.	33	1,087	6	11	282	150	538	Oc	588	Fe	471	562	501	59	1	1				8,753,274
4	Vault lights and ventilators.	13	179	4	23	11	9	132	Au	158	Ja <sup>a</sup>	101	144	144	.....	.....	.....	.....	.....	.....	264,188
5	Vinegar and cider.	26	212	24	20	25	10	163	.....	.....	.....	.....	188	180	8	.....	.....	.....	.....	.....	2,006,896
6	Vinegar.	15	211	15	14	23	9	150	Se	186	De	119	146	139	7	.....	.....	.....	.....	.....	1,888,214
7	Cider.	11	31	9	6	2	1	13	Se	37	Ja <sup>a</sup>	2	42	41	1	.....	.....	.....	.....	.....	118,645
8	Wall paper, not made in paper mills.	9	1,149	1	55	87	52	954	De	1,005	Jy	802	1,221	929	291	.....	1				4,418,119
9	Wall plaster and composition flooring.	11	273	1	31	41	28	172	Se <sup>a</sup>	213	Ja	116	186	178	8	.....	.....	.....	.....	.....	897,522
10	Washing machines and clothes wringers.	21	2,446	4	108	395	192	1,747	Gc	2,248	Ja	1,222	2,376	2,333	41	2	.....	.....	.....	.....	9,176,002
11	Waste cotton.	4	135	3	11	5	3	113	No <sup>a</sup>	118	Fe	108	118	89	20	.....	.....	.....	.....	.....	415,876
12	Watch materials, except watchcases.	5	117	4	3	3	0	98	Je	127	Mh	81	89	19	68	.....	.....	2			90,402
13	Windmills.	8	885	2	55	69	25	734	De	843	Je	424	850	844	2	4	.....	.....	.....	.....	3,627,118
14	Window and door screens and weather strips.	26	289	23	29	10	17	201	.....	.....	.....	.....	210	175	33	2	.....	.....	.....	.....	963,941
15	Window and door screens.	16	215	19	13	5	7	171	My	217	Ja	116	172	141	30	1	.....	.....	.....	.....	451,792
16	Weather strips.	10	65	4	16	5	10	30	De	30	My	25	38	34	3	1	.....	.....	.....	.....	512,149
17	Window shades and fixtures.	59	1,617	49	64	84	76	1,344	No	1,508	Ja	1,144	1,511	1,134	375	2	.....	.....	.....	.....	6,346,737
18	Wire.	10	3,282	133	275	99	2	7,775	An	3,309	Oc	1,468	3,109	3,005	104	.....	.....	.....	.....	.....	15,477,020
19	Wirework, not elsewhere specified.	49	1,120	36	101	73	89	821	.....	.....	.....	.....	874	768	108	9	1				4,005,517
20	Woven wirefencing.	42	713	33	64	35	48	288	Au	330	Ja	252	316	316	.....	.....	.....	.....	.....	.....	2,345,031
21	All other.	7	407	.....	.....	.....	.....	533	Ja	670	Ja	509	558	442	106	9	.....	.....	.....	.....	1,660,486
22	Wood preserving.	42	564	.....	28	16	2	518	Je	585	Fe	425	562	562	.....	.....	.....	.....	.....	.....	2,252,833
23	Wood, turned and carved.	28	747	19	32	64	26	606	Oc	658	Ja	559	652	594	41	14	3				1,319,317
24	Wooden goods, not elsewhere specified.	9	215	5	13	18	9	170	Ja	199	No	150	167	154	9	4	.....	.....	.....	.....	581,690
25	Wool pulling.	5	69	5	6	2	.....	56	De	83	My	30	83	83	.....	.....	.....	.....	.....	.....	187,822
26	Woolen goods.	4	513	.....	18	13	.....	482	Je	499	Ja	451	498	304	187	3	4				1,928,633
27	All other industries*	209	39,965	192	1,253	2,510	1,602	34,408	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	174,944,487

\*All other industries embrace—  
Aeroplane, seaplane, and airships,  
and parts.  
Ammunition.  
Bags, paper, not including bags made  
in paper mills.  
Bells.  
Belting and hose, rubber.  
Belting and hose, woven, other than  
rubber.  
Boot and shoe cut stock.  
Boot and shoe findings.

Chewing gum	6
Chocolate and cocoa products	1
Clocks	5
Cloth, sponging and refinishing	4
Clothing, horse	3
Combs and hairpins, not made from metal or rubber	1
Cordage and twine	3
Cork, cutting	3
Cotton lace	1
Crucibles, graphite	1
Dye stuffs and extracts—natural	3

Feathers and plumes.....	
Felt goods.....	
Files.....	
Fire extinguishers, chemical.....	
Firearms.....	
Fireworks.....	
Flax and hemp, dressed.....	
Glucose and starch.....	
Gold and silver, reducing and refining, not from the ore.....	
Graphite, ground and refined.....	

Grease and tallow, not including lubricating greases	42
Halcloth	2
Hammocks	2
Hardware, saddlery	1
Hats, wool-felt	4
Horseshoes, not made in steel works or rolling mills	1
Ink, writing	5
Iron and steel, wrought pipe	2
Ivory, shell, and bone work, not including combs and hairpins	3

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

	CHICAGO—All industries.....	10,537	502,100	8,182	21,877	42,732	25,367	403,942	No 428,702	My 381,980	433,022	332,004	94,761	2,694	3,473	2,074,892,014
1	Aluminum manufactures.....	3	62	4	8		2	48	Do s	00	Fe	26	66	65	1	127,160
2	Artificial stone products.....	21	253	16	28	12	13	184	Je	210	Fe	138	207	207		884,278
3	Artists' materials.....	8	40	5	3	2		27	Se s	29	Ja	24	29	23	4	129,577
4	Automobile bodies and parts.....	136	4,353	93	285	300	238	3,437	De	4,021	Ja	2,724	4,027	3,680	337	9,963,374
5	Automobiles.....	13	1,973	2	131	265	112	1,463	No	1,558	Ap	1,369	1,546	1,545	1	11,390,074
6	Automobile repairing.....	207	1,852	215	110	100	60	1,367	Jy	1,425	Ja	1,275	1,395	1,378	16	2,530,840
7	Awnings, tents, and sails.....	36	410	37	34	49	20	352	Je	352	Ja	196	269	139	112	1,239,706
8	Billiard tables and accessories.....	3	39	1	3	2		30	(i)	30	(i)	30	30	15	15	72,525
9	Bluing.....	5	54	5	4	5		40	Se	61	Ja s	30	34	12	18	74,812
10	Bookbinding and blank-book mak- ing.....	98	2,743	81	131	124	107	2,305	De	2,487	Ja	2,076	2,521	1,309	1,067	4,536,399
11	Boots and shoes.....	31	3,894	22	112	233	183	3,344	De	4,093	Ap	1,468	4,079	2,437	1,505	11,325,469
12	Boxes, cigar.....	5	201	5	5	6	4	181	Je	191	Fe s	174	191	72	92	317,639
13	Boxes, paper and other, not else- where specified.....	70	5,239	39	231	299	181	4,480	No	4,811	My	4,237	4,821	1,872	2,049	11,119,752
14	Boxes, wooden packing, except cigar boxes.....	32	3,008	22	106	93	36	3,351	Ja	3,865	Jy	1,852	3,354	2,071	277	6,575,222
15	Brass, bronze, and copper products.....	72	3,063	32	185	209	118	2,519	De	2,784	Je	2,114	2,781	2,507	196	10,125,743
16	Bread and other bakery products.....	1,338	12,310	1,423	303	1,287	379	9,413	De	10,030	My	8,325	10,223	6,977	3,113	32,017,026
17	Brick and tile, terra-cotta, and fire- clay products.....	9	697		62	31	10	594	Oc	862	Ja	226	745	744	1	4,819,199
18	Brooms, from broom corn.....	33	443	45	10	20	10	358	Se	370	Mh	342	373	298	73	715,409
19	Brushes.....	37	384	36	24	25	18	251	So	293	Ja	200	286	228	52	1,032,764
20	Butter.....	6	235	1	27	24	20	163	Au	194	Ja	137	161	117	44	7,278,622
21	Buttons.....	19	249	17	9	5	6	212	Ap	222	Ja	186	208	85	117	335,272
22	Canning and preserving, fish.....	5	32	8	2	1	1	20	Fe s	22	Je s	17	23	20	3	123,377
23	Cardboard, not made in paper mills.....	3	153		14	7	8	126	Oc	145	Ja	93	133	78	55	593,644
24	Carriages and sleds, children's.....	8	205	6	8	9	6	176	Fe	185	Ap	161	179	134	40	230,768
25	Carriages and wagons, including re- pairs.....	49	1,439	53	63	84	24	1,210					1,265	1,264	1	8,540,591
26	Carriages and wagons.....	15	1,335	16	63	83	24	1,149	Oc	1,320	Je	1,052	1,206	1,206		8,317,471
27	Repair work only.....	34	104	42		1		81	Au s	65	De	56	59	58	1	223,120
28	Cars and general shop construction and repairs by steam-railroad com- panies.....	26	17,211		439	849	177	15,746	No	16,335	Ap	15,281	16,311	16,106	208	45,052,386

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



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

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

[illegible]

Jute goods.....	1	Pencils, lead.....	1	Smelting and refining, lead.....	2	Tin foil and other foils, not elsewhere specified.....	1
Lasts.....	1	Pens, fountain and stylographic.....	5	Smelting and refining metals, not elsewhere specified.....	1	Tobacco, chewing and smoking, and snuff.....	3
Lead, bar, pipe, and sheet.....	1	Plated ware.....	2	Soda-water apparatus.....	12	Umbrellas and canes.....	1
Lubricating greases.....	0	Pulp goods.....	2	Sugar, beet.....	1	Watchcases.....	24
Matches.....	2	Rules, ivory and wood.....	2	Surgical appliances.....	24	Watches.....	1
Nets and seines.....	2	Safes and vaults.....	2	Suspenders, garters, and elastic woven goods.....	14	Whips.....	1
Oil and cake, cottonseed.....	3	Hand and emery paper and cloth.....	1	Textile machinery and parts.....	1	Wool scouring.....	1
Oil, linseed.....	3	Saws.....	13	Theatrical scenery.....	2	Wool shoddy.....	1
Oilcloth and linoleum, floor.....	2	Sewing-machine cases.....	1			Worsted goods.....	1
Paper patterns.....	1	Shipbuilding, steel.....	2				
Peanuts, grading, roasting, cleaning, and shelling.....	1	Silk goods, including throwsters.....	4				

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

90, 330, 278, 98	426, 324	507, 763, 921	28, 847, 951	17, 530, 303	90, 187, 144	2,308,031,184	71, 208, 044	3,057,124,471	1,278,182,243	825,972	361,641	114, 820	33,630	188	312,687	312, 780
18,304	1,260	71,564		1,570	1,755	140,636	4,490	275,262	130,127	24					24	
68,088	32,631	225,461	625	12,520	9,387	247,923	10,743	851,800	596,203	508	130				378	
15,300	4,400	27,241		3,370	654	81,990	660	170,201	96,551	11					11	
980,061	708,825	4,254,885	78,288	317,081	320,747	8,229,612	207,563	18,241,693	9,803,978	4,551	30	200			4,321	5
534,220	460,271	2,159,146		85,956	2,450,813	4,117,006	79,022	51,301,371	9,806,843	912	15				9,227	72
266,123	181,745	1,767,014	20,800	257,490	21,553	2,452,111	84,460	5,829,552	3,202,981	1,155			33		1,122	
132,070	88,912	396,707	1,748	43,068	37,553	1,231,022	11,806	2,417,465	1,173,737	215	85				130	30
11,400	3,000	28,900		300	2,794	18,047	1,422	82,241	61,872	27					27	
13,552	6,305	27,870		4,500	397	224,984	1,065	331,434	105,785	92					92	
446,067	299,899	2,106,087	135,330	180,095	123,133	2,519,739	54,905	7,203,950	4,719,412	1,218	75				1,143	
428,393	670,253	3,104,839	707	152,020	310,481	10,405,535	74,268	17,595,506	7,115,703	2,450	1,845				605	1,159
23,746	14,466	145,127	635	11,940	1,866	210,319	5,060	591,419	346,631	103					106	
976,070	853,184	3,950,336	8,480	267,270	472,065	9,587,127	172,485	19,250,917	9,491,305	3,708	1,200		85		2,421	628
418,310	182,202	3,713,790	67,241	136,678	338,781	7,913,917	44,592	14,549,219	6,500,800	7,552	5,440	1,000			1,100	1,366
747,246	391,477	3,104,131	19,040	137,413	438,987	12,576,403	310,650	7,529,079	3,460	3,420			20		3,440	15
894,113	2,374,535	11,192,719	50,764	734,790	1,044,991	43,020,462	1,181,003	32,437,806	9,429	3,426	175		137		5,691	1,863
199,802	35,801	744,938	5,532	5,559	84,020	116,794	231,051	1,938,312	1,560,244	3,349	2,474		50		725	1,014
31,675	35,883	443,853		22,357	5,595	1,068,380	10,711	1,836,043	757,852	235					235	
82,708	96,896	293,734	9,706	18,208	56,860	1,074,217	20,028	1,988,414	804,169	421	150				271	
102,891	47,908	192,550		4,175	44,457	4,359,301	21,125	4,889,119	502,693	454					454	
40,576	21,659	173,510	2,447	13,231	3,015	252,048	5,081	448,829	300,200	67					67	
6,240	1,924	27,023		3,160	920	357,160	5,369	448,816	85,787	13					13	
56,222	15,183	119,057		14,048	26,823	440,233	5,603	991,614	539,693	166					166	
27,765	26,637	163,192	25	14,425	4,072	181,773	7,301	500,189	311,025	85					85	
201,826	156,959	1,573,927	35,412	24,403	252,513	4,133,661	99,540	7,117,280	2,884,073	3,143	580	2,150	18		395	1,820
201,826	156,621	1,487,941	31,647	18,681	249,957	4,048,247	93,580	6,840,969	2,699,142	2,927	580	2,150	18		170	1,820
2,125,226	339	55,986	3,395	5,782	2,566	85,414	5,966	279,311	184,931	216					216	
	1,539,381	21,252,692		72,058	15,480,922	1,043,923	41,589,961	25,064,216	25,750	16,163	2,998	22			6,576	14,074

<sup>3</sup> Same number reported for one or more other months.

\* Same number reported throughout the year.



## MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.	
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
									Maximum month.	Minimum month.						
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Chicago—Continued.																
1	Cars, steam-railroad, not including operations of railroad companies.	10	11,754	316	638	137	10,663	Ja 12,484	Jy 7,941	10,520	10,395	125			Dollars. 42,837,576	
2	Cash registers and calculating machines.	7	1,108	1	51	58	40	958	Ja 1,112	Au 868	900	739	221		5,278,463	
3	Cheese.	4	12	2	4	2	1	3	De 3	My 2	4	4			20,049	
4	Chemicals.	17	408	4	42	74	46	242	Au 256	Ja 231	261	246	15		3,899,532	
5	China decorating, not including that done in potteries.	10	104	10	4	8	6	76	No 92	Ja 59	87	53	34		170,316	
6	Cleansing and polishing preparations.	48	627	26	73	150	30	348			370	228	135	4	1,515,320	
7	Cleansing preparations.	16	85	11	17	17	8	32	My 38	Je 28	51	36	13	2	147,233	
8	Polishing preparations.	32	542	15	56	133	22	316	Ja 383	Ap 254	319	192	122	2	1,368,087	
9	Clothing, men's.	464	38,035	514	1,040	2,896	2,763	30,822			36,922	18,029	18,009	78	88,891,525	
10	Regular factory products.	217	31,627	184	980	2,872	2,683	24,908			30,399	15,378	14,811	52	87,327,308	
11	Men's and youths'.	166	28,337	134	822	2,540	2,508	22,333	Oc 26,454	Ja 18,517	27,218	14,007	12,996	41	78,716,272	
12	All other.	51	3,290	50	158	332	175	2,575	De 3,167	Ja 2,205	3,178	1,311	1,815	11	8,611,121	
13	Contract work.	247	6,408	330	60	24	80	5,014			6,526	2,651	3,798	26	1,594,132	
14	Men's and youths'.	239	6,232	319	60	24	79	5,750	Oc 6,201	Ja 5,200	6,313	2,541	3,699	26	1,627,843	
15	Boys'.	4	88	6			1	82	Ja 84	Mh 80	84	81	49	4	15,740	
16	All other.	4	88	6			1	82	De 129	My 54	129	79	50		20,549	
17	Clothing, men's, buttonholes.	3	13	4				9	My 10	Ja 7	11	3	8		3,750	
18	Clothing, women's.	374	11,056	441	375	630	463	9,147			9,216	2,807	6,300	16	22,196,670	
19	Regular factory products.	343	10,642	401	372	630	462	8,777			8,800	2,590	6,101	16	22,083,108	
20	Suits, skirts, cloaks, shirt-waists, and dresses, except house dresses.	250	7,739	307	247	465	364	6,356	Se 7,035	Ja 5,516	6,222	2,243	3,909	10	15,485,897	
21	All other.	93	2,903	94	125	165	98	2,421	No 2,624	Ja 2,204	2,578	347	2,192	6	6,597,211	
22	Contract work.	31	414	40	3		1	370			416	217	199		113,662	
23	Suits, skirts, and cloaks.	22	292	28	3		1	260	Au 331	My 171	297	185	112		44,253	
24	All other.	9	122	12				110	Oc 131	Fe 93	119	32	87		69,809	
25	Coal-tar products.	5	166	23	21	10	12	112	Ja 133	Fe 95	132	126	6		971,532	
26	Coffins, burial cases, and undertakers' goods.	14	957	2	56	122	15	762	Mh 822	De 702	702	584	114	2	3,133,069	
27	Confectionery and ice cream.	191	8,761	128	444	533	411	7,245	Oc 8,557	Jy 5,017	7,792	3,743	3,773	49	24,005,095	
28	Confectionery.	154	8,030	108	376	487	379	6,680	Oc 8,557	Jy 5,017	7,309	3,305	3,758	19	19,822,173	
29	Ice cream.	37	731	20	68	46	32	565	Jy 746	Ja 495	483	438	15	30	4,182,822	
30	Cooperage.	19	1,029	8	49	15	13	944	Fe 994	Au 840	955	908	49		2,093,911	
31	Copper, tin, and sheet-iron work.	218	1,963	219	124	85	70	1,456	De 1,607	Ja 1,313	1,628	1,014	8	6	4,926,997	
32	Corsets.	17	1,880	8	83	71	144	1,574	De 1,764	Ja 1,483	1,814	234	1,499	24	4,103,244	
33	Cutlery and edge tools.	13	1,097	9	66	58	52	912	No 995	Ap 700	1,010	894	110	8	4,135,820	
34	Dairyman's supplies.	7	572	44	46	37	446	Je 435	No 403	...	411	338	73		2,439,273	
35	Dental goods.	17	329	11	16	25	31	246	De 262	Ja 235	254	213	32	8	394,660	
36	Druggists' preparations.	23	789	7	57	178	104	383	Ja 402	Jy 304	380	220	155	2	3,066,606	
37	Electrical machinery, apparatus, and supplies.	140	17,722	38	849	1,872	1,074	13,839	De 16,041	Fe 12,729	10,025	11,115	4,735	124	57,234,184	
38	Electroplating.	44	603	46	40	14	16	487	No 541	Ja 401	540	505	25	9	549,034	
39	Emery and other abrasive wheels.	6	105	2	14	16	6	67	Oc 85	Ja 51	85	85			571,329	
40	Engravers' materials.	5	98	2	14	11	12	59	De 66	Ja 62	64	63		1	297,140	
41	Engraving and diesinking.	38	837	35	24	40	25	713	Au 826	Ja 600	804	767	27	9	2,473,332	
42	Engraving, steel and copper plate, including plate printing.	33	1,462	21	98	74	80	1,189	De 1,286	Ap 1,109	1,281	774	436	25	3,649,362	
43	Engraving, wood.	11	259	10	17	48	13	171	Jy 185	Ja 159	168	167		1	227,963	
44	Fancy articles, not elsewhere specified.	51	1,098	49	57	66	47	879			900	282	575	8	1,473,712	
45	Beadwork and celluloid novelties.	5	55	7	3		2	43	Fe 56	My 32	48	26	18	4	72,985	
46	Metal novelties.	12	298	10	17	18	13	240	No 300	Ja 180	247	151	90		395,252	
47	All other.	34	745	32	37	48	32	595	Se 689	Ja 515	605	105	467	4	1,005,475	
48	Flags and banners.	9	142	6	7	8	9	112	Ja 126	Au 101	107	19	83	1	201,157	
49	Flavoring extracts.	20	455	10	34	152	46	213	Jy 282	Fe 168	241	93	139	1	737,909	
50	Flour-mill and gristmill products.	7	466		36	50	17	363	No 398	Au 326	390	390			7,017,161	
51	Food preparations, not elsewhere specified.	99	3,769	92	213	438	188	2,838			2,826	1,679	1,124	2	17,043,925	
52	Breadstuffs, cereals, and breakfast foods, lard compounds, macaroni, vermicelli, and noodles.	29	1,210	46	39	98	40	987	Ja 1,171	Mh 604	1,053	752	287		5,889,834	
53	All other for human consumption.	63	2,340	42	148	307	125	1,718	Fe 1,972	My 1,387	1,662	817	836	2	9,854,897	
54	For animals and fowls.	7	219	4	26	33	23	133	Ja 150	Je 99	111	110	1		1,299,194	
55	Foundry and machine-shop products.	474	32,095	235	1,591	2,544	1,339	26,386			29,051	27,769	1,079	191	108,230,262	
56	Boiler shops.	21	496	16	25	22	3	430	Oc 465	Je 405	441	441			1,350,004	
57	Foundries.	40	6,278	11	218	324	129	5,599	De 6,547	Je 4,822	6,610	6,404	145	1	17,162,450	
58	Machine shops.	403	22,692	208	1,268	1,980	1,123	18,113	No 19,951	Mh 16,845	19,669	18,562	914	181	79,441,242	
59	Machine shop and foundry combined.	10	2,629	80	218	84	247	2,247	Ja 3,189	My 1,928	2,331	2,302	20	9	10,276,566	
60	Fur goods.	120	958	120	69	62	53	654	No 747	Mh 581	723	384	339		3,526,632	
61	Furnishing goods, men's.	27	1,203	20	57	153	56	917	Oc 1,022	Je 835	1,040	145	876	3	3,093,330	
62	Furniture.	222	10,077	171	498	604	277	8,027			9,511	8,793	614	100	25,444,362	
63	Wood, including rattan and willow.	153	7,865	121	361	409	204	6,770	De 7,465	Ja 5,847	7,500	6,879	537	80	23,134,546	
64	Metal furniture.	10	463	3	41	17	21	381	No 443	Fe 308	412	378	34		1,494,255	
65	Store and office fixtures.	59	1,749	47	96	78	52	1,476	No 1,587	Ja 1,345	1,599	1,536	43	20	3,816,058	
66	Tins, dressed.	4	68	1	8	1	1	57	Mh 72	Au 43	51	45	6		114,566	
67	Gas and electric fixtures.	34	1,384	10	85	117	75	1,097	No 1,243	Ap 960	1,205	895	293	12	3,140,602	

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> 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.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

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

Dollars. 789,226	Dollars. 1,140,218	Dollars. 15,977,440	Dollars. 728	Dollars. 20,840	Dollars. 670,815	Dollars. 407,016	Dollars. 19,733	Dollars. 3,326,935	Dollars. 2,000,180	26,719	5,096	17,658	1,000	2,965	27,163	1
262,302	120,308	1,152,132	728	20,840	670,815	407,016	19,733	3,326,935	2,000,180	409	200	12	2	200	100	2
6,590	6,906	4,325	941	941	237	69,438	222	101,709	32,049	12	12					3
174,446	160,190	340,881	42,563	145,744	1,018,205	192,891	4,368,494	2,257,308	2,392	2,392	490		50	1,852	37	4
16,676	35,719	89,720	968	4,714	6,036	90,701	7,595	352,207	253,821	10				10		5
237,332	381,017	367,405	234	57,461	37,400	2,235,113	16,288	4,604,454	2,353,053	391	12		2	377	4	6
52,280	22,106	51,301	17,364	17,364	1,008	328,730	3,153	606,110	274,227	62			2	60	4	7
185,052	358,011	316,104	231	40,097	35,402	1,006,383	13,135	3,998,344	2,078,820	329	12			317		8
5,861,787	7,333,684	42,772,268	10,012,410	1,360,590	4,262,288	86,188,754	441,163	100,016,021	103,381,007	5,738	245	125	3	5,360	198	9
5,615,556	7,223,999	34,012,030	10,277,889	1,220,780	4,211,301	85,218,092	372,672	177,056,475	92,035,711	5,055	245	125		4,685	192	10
4,928,020	6,691,050	31,808,864	9,467,681	1,126,182	4,072,118	75,631,434	310,193	159,816,589	83,805,902	3,930	185	125		3,620	192	11
717,536	532,049	3,134,066	810,208	91,598	169,186	9,616,658	53,470	17,809,886	8,130,749	1,125	60			1,065		12
216,231	109,685	7,820,338	634,521	139,810	20,084	640,062	71,491	12,360,449	11,348,206	678			3	675	6	13
216,231	109,685	7,001,796	631,560	135,450	19,987	916,470	69,103	12,059,958	11,074,313	657			3	654	6	14
		114,260		1,248	281	3,970	1,352	143,764	138,442	11				11		15
	504	113,282	2,061	3,112	716	20,122	1,036	156,609	135,541	10				10		16
		11,772		640	2	1,763	305	20,026	17,958	3				3		17
1,840,142	2,325,543	10,787,240	1,474,354	632,504	277,626	38,686,575	126,217	64,203,210	25,390,388	1,671				1,671		18
1,834,422	2,324,543	10,285,101	1,471,980	616,705	277,095	38,619,557	120,710	63,478,608	24,708,431	1,602				1,602		19
1,363,910	1,765,678	8,249,617	1,353,528	482,044	213,658	29,705,707	77,648	48,647,904	18,864,489	853				853		20
470,512	558,865	2,035,484	118,452	134,061	63,437	8,943,700	43,062	14,830,794	5,843,042	749						21
5,720	1,000	502,130	2,374	579,799	531	37,018	5,537	724,512	681,057	99				69		22
5,720	1,000	372,106	1,180	11,128	476	20,404	3,328	508,943	470,211	47				47		23
		130,033	1,194	4,671	55	10,614	2,209	215,509	202,740	22				22		24
110,270	35,190	179,091	5,200	69,536	687,112	26,032	1,406,630	693,476	498	498	80			388		25
214,450	270,882	784,952	26,215	205,709	1,988,287	39,341	4,619,773	2,612,145	1,120	600				629	117	26
1,844,054	1,495,820	7,204,126	128,004	440,882	3,089,359	33,650,612	548,770	61,577,267	27,377,885	10,401	1,738		277	8,446	1,504	27
1,563,810	1,390,235	6,206,425	128,770	398,508	2,949,581	28,841,154	390,050	53,287,473	24,047,230	6,804	1,722			5,082	1,504	28
280,244	115,585	907,701	194	42,314	139,778	4,800,458	149,720	8,289,794	3,330,016	3,657	16		277	3,364		29
302,842	40,938	1,301,303	33,865	25,091	301,918	5,259,272	32,870	8,045,315	2,764,164	2,092	1,034			1,258	324	30
462,036	194,749	2,028,490	92,245	118,925	103,164	3,970,770	71,032	8,856,125	4,814,323	1,277			42	1,235		31
325,797	378,555	1,150,975	92,245	95,214	117,826	3,370,003	32,423	6,286,313	2,883,887	320				320		32
173,909	160,824	1,003,814	8,111	201,491	1,233,680	62,880	3,572,013	2,285,453	1,138	420			5	713	100	33
139,404	99,143	517,881	15,281	6,640	43,360	831,739	20,674	2,633,150	1,780,837	430	125			305	150	34
98,295	65,712	276,117	105	27,149	68,028	471,163	13,649	1,276,080	701,868	92				92		35
228,189	415,180	355,994	105	20,397	177,434	1,301,044	37,050	3,635,516	2,201,422	786	671		33	82	361	36
3,408,606	3,774,270	14,736,115	618,802	521,516	2,735,352	36,505,874	608,028	78,347,552	41,143,050	14,840	1,476	3,500		9,862	5,317	37
133,875	31,826	687,053	1,084	47,723	2,000	285,235	36,059	2,181,100	1,859,806	735			8	727		38
59,825	30,004	93,492	1,400	2,022	23,108	320,700	3,750	720,168	305,013	40				40		39
59,112	18,646	86,547		11,421	2,937	631,108	9,055	1,040,805	397,042	282			100	182		40
133,704	103,304	947,510	12,722	21,020	73,171	1,162,232	71,575	3,235,064	2,001,707	882	35			847		41
876,295	203,355	1,380,968	11,073	50,550	132,374	1,630,393	40,441	4,704,005	3,223,201	1,372	725			647	530	42
71,087	58,347	311,349	315	17,994	420	105,066	1,803	820,342	659,383	27				27		43
159,364	147,106	709,500	33,850	58,093	14,288	2,324,727	16,700	4,239,287	1,897,854	216				216		44
9,192	1,478	40,989	2,500	4,910	103	188,733	874	276,128	50,521	36				36		45
49,445	42,188	109,658	13,000	14,669	4,124	320,913	9,748	837,763	498,062	124				124		46
100,727	103,530	408,853	18,350	38,614	10,061	1,806,051	6,084	3,125,406	1,313,271	50				50		47
16,464	31,711	73,643	938	16,358	2,047	170,495	3,127	349,336	175,714	120				120		48
95,371	134,418	108,526		20,239	12,976	910,563	5,544	1,590,917	674,810	116				116		49
204,310	103,339	450,857	1,320	257,951	10,274,556	121,292	22,109,077	2,713,229	3,735	3,735	2,125			1,610	140	50
918,153	1,010,080	2,914,045	36,911	215,095	500,902	47,370,979	425,442	67,055,131	9,258,710	7,720	3,469		160	4,091	744	51
105,251	210,270	1,067,107	400	53,176	50,439	20,083,432	253,615	21,854,774	1,517,727	3,015	2,670			1,230	204	52
755,231	706,405	1,070,011	36,511	141,744	484,076	22,672,413	142,025	29,815,560	7,100,231	2,280	558		160	1,562	450	53
57,071	93,315	170,027		20,085	25,487	4,715,134	28,002	5,384,788	640,752	1,525	235			1,200		54
7,397,742	6,067,045	35,800,098	806,455	944,407	7,263,209	52,442,609	2,672,080	138,980,130	83,873,560	48,090	14,520	855	809	32,806	11,179	55
148,067	48,140	635,642	24,790	12,611	55,115	955,638	35,301	2,527,551	1,530,612	681	195	150	27	609		56
1,105,482	607,684	8,567,358	110,185	81,201	1,231,895	9,757,105	1,293,045	27,022,763	15,972,613	11,435	2,612		5	8,818	360	57
5,501,429	4,909,565	23,025,108	662,342	839,555	4,408,830	38,290,379	1,072,727	99,003,563	59,724,457	31,880	9,406	705	777	20,902	7,864	58
642,764	501,865	2,971,960	9,132	11,100	1,477,309	3,133,477	271,007	10,345,262	6,639,878	4,694	2,217			2,477	2,955	59
241,099	148,692	1,070,703	43,167	151,490	110,146	4,504,340	14,817	8,019,377	3,413,220	152				152		60
221,888	123,954	805,672	5,864	55,967	60,936	3,064,672	12,327	6,703,466	2,721,567	604	400			204	177	61
2,106,684	493,289	9,724,506	618,789	510,295	930,120	18,106,054	475,537	41,612,337	23,030,146	14,840	9,963	330	173	4,324	3,270	62
1,640,038	1,150,955	7,644,347	596,656	347,785	770,848	14,416,917	362,578	32,992,835	18,213,340	11,226	8,330	330	35	2,481	3,138	63
125,010	72,377	370,422	7,411	22,638	16,790	757,201	24,302	1,701,213	919,710	844	203		23	528		64
341,636	169,957	1,709,822	14,722	139,872	148,482	2,032,536	88,657	6,918,289	3,897,090	2,770	1,340			1,315	132	65
18,021	2,706															



TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Average number.	Wage earners.		Total.	16 and over.		Under 16.					
						Male.	Female.		Maximum month.	Minimum month.		Male.	Female.	Male.	Female.				
																Number, 15th day of—			
1	CHICAGO—Continued.	14	909	1	41	163	68	636			693	683	9	1	Dollars.				
2	Gas machines and gas and water meters.	4	121		13	17	8	83	Au	99	Mh	63	94	89	5	3,828,512			
3	Gas meters and water meters.	10	788	1	28	146	60	553	Au	628	Ap	460	599	594	4	489,630			
4	All other.	3	19	4	2		1	12	Ja	16	Se	9	10	5	1	3,338,882			
5	Glass.	44	612	26	40	16	33	497				501	367	122	9	25,724			
6	Glass, cutting, staining, and ornamenting.	4	37	2	3		2	30	No	40	Ap	24	39	37	2	842,156			
7	Decalcomania work on glass.	40	575	24	37	16	31	467	Au	477	Se	456	462	330	120	41,340			
8	All other.	6	155	3	11	1	7	133	De	135	Je	131	135	71	56	800,816			
9	Gold, leaf and foil.	21	327	12	36	20	28	231	Se	248	Ap	223	238	195	36	117,098			
10	Hand stamps.	57	2,547	36	161	127	108	2,115				2,332	2,107	201	21	569,994			
11	Hardware.	20	637	12	45	33	32	515	Au	569	Ja	460	574	523	43	8,944,700			
12	Locks and builders' hardware.	6	146	3	15	6	7	115	Au	133	Ja	73	131	104	24	1,635,745			
13	Vehicle hardware.	31	1,764	21	101	88	69	1,485	No	1,634	Je	1,364	1,627	1,480	134	339,076			
14	All other.	7	53	5	3	3	2	40	(C)	40	(C)	40	40	15	23	6,969,879			
15	Hat and cap materials.	5	55	1	8	9	1	36	Se	38	Ja	34	34	21	13	115,882			
16	Hats, fur-felt.	44	979	27	77	89	45	741	De	807	Fe	674	801	324	451	140,288			
17	House-furnishing goods, not elsewhere specified.	33	701		85	42	11	563	Jy	721	Ja	368	537	536	1	2,403,946			
18	Ice, manufactured.	11	143	6	22	23	13	79	De	88	Ja	72	88	85	1	8,291,270			
19	Ink, printing.	7	536		31	34	11	460	Ja	528	Se	427	403	403		787,597			
20	Iron and steel, doors and shutters.	12	1,313	1	72	70	28	1,142	Ja	1,445	Jy	767	1,132	1,124	8	1,213,798			
21	Iron and steel, forgings, not made in steel works or rolling mills.	10	129	7	15	13	6	88	De	102	Ap	70	101	99	1	6,981,627			
22	Iron and steel, tempering and welding.	3	91	2	5	2	2	80	My	86	Fe	70	87	81	5	319,354			
23	Japanning.	72	1,803	63	77	106	81	970	De	1,085	Mh	905	1,078	864	203	46,034			
24	Jewelry.	38	1,781	28	82	71	83	1,517	De	1,617	Ja	1,411	1,607	314	1,232	5,620,214			
25	Knit goods.	13	914	7	42	89	82	694	Oc	768	Jy	612	756	448	297	5,555,020			
26	Labels and tags.	4	57	1	7	3	5	41	Je	45	Ja	36	43	39	2	2,473,797			
27	Lapidary work.	35	781	23	38	46	31	643	No	709	Ja	600	686	502	149	121,740			
28	Leather goods, not elsewhere specified.	26	3,967	25	123	107	40	3,666	Au	3,847	My	3,538	3,617	3,092	490	1,582,986			
29	Leather, tanned, curried, and finished.	27	2,474		212	332	40	1,890	Jy	2,207	De	1,559	1,547	1,536	11	28,547,590			
30	Liquors, malt.	31	1,380	10	91	131	65	1,083	De	1,133	Ja	1,035	1,135	870	247	20,855,987			
31	Lithographing.	50	2,259	23	124	104	71	1,937	Se	2,090	Ja	1,590	2,014	1,690	269	4,187,623			
32	Looking-glass and picture frames.	3	143		13	12	7	111	De	125	Ja	91	128	128		3,191,374			
33	Lumber and timber products.	110	3,792	60	227	265	99	3,141	No	3,547	Fe	2,616	3,501	3,430	32	1,231,275			
34	Lumber, planing-mill products, not including planing mills connected with sawmills.	9	294	2	22	20	16	234	No	259	Je	207	265	264		14,563,977			
35	Machine tools.	82	730	82	57	34	19	538					611	608	2	810,946			
36	Marble and stone work.	28	159	28	12	3	8	108	My	122	Ja	89	110	110		2,535,445			
37	Monuments and tombstones.	54	571	54	45	31	11	430	Je	497	Ja	314	501	498	2	494,657			
38	All other.	50	1,734	45	60	138	37	1,454	Oc	1,608	Ja	1,009	1,638	1,172	422	2,040,788			
39	Mattresses and spring beds, not elsewhere specified.	117	5,302	103	184	178	153	4,684					4,964	1,021	3,847	3,602,173			
40	Millinery and lace goods, not elsewhere specified.	89	4,861	81	159	156	125	4,340	Fe	4,659	Je	3,695	4,615	941	3,589	5,808,241			
41	Embroideries, trimmed hats, and hat frames.	28	441	22	25	22	28	344	No	367	Fe	325	340	80	258	5,130,851			
42	All other.	73	521	79	56	43	12	331	Au	451	Ja	245	302	281	20	677,390			
43	Mineral and soda waters.	65	473	70	25	8	14	356	De	387	Ja	311	390	369	9	2,090,451			
44	Models and patterns, not including paper patterns.	7	1,179		33	35	29	1,082	My	1,262	Fe	416	1,137	1,007	40	510,372			
45	Motorcycles, bicycles, and parts.	6	144	2	6	11	10	115	Jy	128	Ja	91	127	107	16	2,456,460			
46	Musical instruments, organs.	22	5,452	6	118	245	229	4,854	De	5,126	Ja	4,368	5,124	4,561	429	539,341			
47	Musical instruments, pianos.	5	524		24	7	15	478	Mh	513	Je	438	452	294	134	30,015,411			
48	Musical instruments, piano and organ materials.	3	465		20	57	37	351	No	381	Se	338	382	108	195	1,148,484			
49	Needles, pins, and hooks and eyes.	17	492	7	38	55	49	343	Mh	389	Jy	243	364	271	80	1,263,708			
50	Optical goods.	36	3,836	9	227	905	415	2,280	De	2,614	Je	2,129	2,407	2,130	275	953,127			
51	Paints.	20	788	4	56	117	66	543	Mh	610	No	475	539	340	188	23,932,016			
52	Paper goods, not elsewhere specified.	147	2,130	85	210	590	524	757					805	428	351	8	2,501,059		
53	Patent medicines and compounds.	101	1,481	62	135	323	396	565	De	615	Ja	509	614	278	811	8,249,855			
54	Patent and proprietary medicines.	46	655	23	75	237	128	192	Fe	197	De	184	191	150	40	4,891,886			
55	Patent and proprietary compounds, not elsewhere specified.	4	67		5	13	2	47	De	63	Fe	8	63	63		3,357,969			
56	Paving materials.	69	1,356	34	123	111	395	693	De	799	Ja	590	799	204	561	687,808			
57	Perfumery and cosmetics.	32	1,838	12	113	82	74	1,557	De	2,002	Ja	1,076	2,020	1,884	125	4,293,008			
58	Phonographs and graphophones.	23	1,179	7	68	172	57	875	De	921	Ja	803	909	841	50	5,029,183			
59	Photo-engraving.	12	790	5	48	80	47	601	No	671	Ja	508	643	548	95	1,542,090			
60	Photographic apparatus.	46	1,699	30	106	144	66	1,353	Oc	1,568	Mh	1,185	1,539	695	818	1,429,812			
61	Pickles, preserves, and sauces.	10	122	9	9	11	10	83	No	111	Ja	67	99	69	40	6,349,009			
62	Pocketbooks.	963	20,459	752	1,380	2,184	2,237	19,936					21,985	16,199	4,962	252,604			
63	Printing and publishing, book and job.	797	22,760	667	1,076	1,358	957	18,702	De	20,420	Ap	17,414	20,646	15,230	4,615	64,581,605			
64	Book publishing and printing, linotype work, and typesetting.	166	3,729	85	304	826	1,280	1,234	Se	1,345	Ja	1,133	1,339	969	347	48,282,648			
65	Printing and publishing, music.	26	241	18	22	24	66	111	De	126	Ja	99	124	64	56	16,298,957			

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.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.			Rent- <sup>2</sup>	
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

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

Dollars. 125,365	Dollars. 340,099	Dollars. 686,674	Dollars. 1,300	Dollars. 10,708	Dollars. 35,310	Dollars. 1,307,593	Dollars. 19,669	Dollars. 2,708,020	Dollars. 1,381,367	423	30	115	278	59	1
35,110	41,066	105,896	1,300	3,120	4,721	137,706	4,198	371,891	223,087	166		115	51	50	2
90,255	298,133	580,678		7,588	30,598	1,259,887	15,471	2,426,738	1,151,380	257	30		227		3
8,101	156	9,787		910	107	25,861	824	46,305	10,617	8			8		4
110,812	60,521	429,052	532	49,549	12,005	903,331	17,873	1,918,565	997,301	181			181		5
8,183	2,378	35,765		5,120	161	22,459	902	88,257	64,806	33					6
102,620	58,143	303,287	532	44,429	11,844	880,872	16,881	1,830,248	932,405	148					7
28,491	8,117	130,999	6,369	2,880	2,910	253,153	2,813	470,420	214,463	34					8
127,288	56,879	248,731	9,600	24,648	10,381	339,222	10,749	901,140	614,169	160					9
575,995	319,818	2,542,133	5,090	94,003	497,063	4,332,010	113,717	10,589,350	6,143,014	2,776					10
133,570	93,928	550,051		40,879	29,158	755,808	31,217	2,007,163	1,229,078	501	750	15	2,011	500	10
71,508	9,989	130,337		12,872	6,692	333,006	4,915	734,622	395,611	118					11
371,117	215,901	1,852,745	5,090	34,252	461,213	3,213,687	77,555	7,818,565	4,527,325	2,067		15	103		12
7,925	4,018	30,219		4,301	1,147	257,107	1,083	380,571	122,381	18			1,317	500	13
24,158	23,995	44,192	18,000	4,830	4,142	187,563	1,674	344,306	155,150	40			18		14
265,237	250,606	628,471	6,018	86,578	118,110	3,770,055	34,062	6,023,875	2,219,758	1,128			15		15
459,820	63,442	971,925		4,201	346,521	260,185	710,371	4,988,144	4,017,588	21,099			763	67	16
136,565	62,010	103,142		20,735	24,274	743,094	11,857	1,801,492	633,511	980	2,776	1,130	17,194	570	17
136,023	50,481	642,835	4,225	16,322	1,268,411	20,301	2,367,092	1,070,280	506	500			980		18
392,583	135,541	1,520,042		22,365	451,001	4,235,442	307,228	8,070,103	3,503,433	5,202	150	1,885	3,043	2,032	19
53,242	22,166	111,203	13,780	9,308	7,622	233,298	9,402	486,324	243,624	166	75		91		20
10,540	3,730	65,046		6,456	330	10,853	5,214	136,148	111,081	22					21
409,513	253,648	1,285,446	108,638	106,133	199,597	2,585,411	17,924	6,014,680	3,411,345	429			22		22
313,990	388,496	1,070,022	5,233	92,516	143,733	3,291,480	36,461	6,023,311	2,692,361	870			329	150	23
221,850	229,419	627,383	10,787	38,898	133,064	1,295,883	21,627	3,428,419	2,107,009	937			425	245	24
16,100	7,305	52,218		4,740	9,710	82,062	1,148	312,681	228,271	25			435	14	25
168,853	102,804	630,802	312	41,540	43,357	2,211,280	21,868	3,807,092	1,670,044	501			326		26
960,364	333,776	4,310,139	411,113	30,248	1,095,206	33,888,850	406,241	50,510,773	10,264,676	11,049	8,454	290	2,306	6,061	27
941,284	1,015,365	2,730,491	4,001	8,500	4,310,260	4,701,463	577,333	20,572,801	15,294,005	16,515	14,203	1,010	1,302	6,076	28
416,603	440,517	1,373,085	167,546	82,837	112,157	2,199,585	44,283	6,014,666	3,770,825	1,170			1,010		29
471,271	346,749	2,082,157	3,280	128,948	137,190	2,624,807	83,929	7,087,301	4,378,475	2,107			1,457	136	30
126,492	39,706	130,355		17,253	102,453	681,161	37,338	1,436,135	717,633	540			1,001		31
809,930	484,755	3,878,293	25,652	196,361	312,660	14,112,147	145,207	23,637,294	8,779,940	14,421	9,320	200	4,614	1,615	32
110,862	37,026	303,551		15,681	13,696	216,003	10,487	1,017,842	791,352	415			409		33
140,531	81,717	774,791	40,890	35,562	31,103	1,818,335	72,919	3,811,254	1,070,071	2,054	345	367	1,912	90	34
29,845	14,736	168,084	8,172	12,076	7,552	310,819	9,974	802,067	472,784	204			1,022		35
110,686	66,981	605,897	32,727	22,886	23,551	1,408,386	62,974	3,058,647	1,497,287	2,450	345	385	1,720	90	36
239,990	280,823	1,478,702	305	95,261	58,900	4,360,473	65,888	7,092,375	3,508,044	1,704	550	35	1,179	245	37
683,351	602,551	4,388,415	58,528	202,127	204,840	10,488,975	89,361	10,623,877	8,945,541	1,245	665		580	400	38
580,991	515,453	4,075,740	35,021	231,621	103,671	9,085,147	83,347	17,823,874	8,055,380	1,120	665		455	460	39
72,360	87,098	312,675	23,507	30,506	11,178	803,828	6,014	1,700,003	800,181	125			125		40
138,005	48,682	404,422	7,420	33,883	81,442	1,088,523	20,753	2,572,469	1,403,103	342			314		41
67,761	25,289	577,772	4,798	42,425	3,901	255,053	13,335	1,228,909	900,002	474			470		42
216,698	44,500	1,320,104		97,615	73,000	1,037,440	35,097	4,852,039	2,878,620	1,370	925	270	175	965	43
31,800	19,509	137,854	1,796	9,920	12,927	189,837	0,153	510,347	314,357	57			57		44
700,627	721,772	5,397,594		101,822	858,687	8,682,021	178,772	22,214,575	13,352,882	4,022	3,100		1,522	1,100	45
88,557	23,006	430,584		8,154	25,106	1,135,730	22,565	1,057,406	799,105	823	740	25	58	1,005	46
223,075	159,092	284,358		10,069	40,037	738,352	18,067	1,941,030	1,184,611	193			193		47
156,688	94,005	364,501	38,044	54,695	44,247	1,107,539	10,006	2,450,877	1,333,242	137			137		48
1,044,838	2,019,049	2,282,846	860	74,027	503,445	20,752,197	481,020	39,108,068	11,050,851	10,108	3,835	25	6,218	3,521	49
300,080	309,175	607,629	2,000	38,611	288,797	2,072,017	28,081	5,588,956	2,587,028	750			750		50
1,109,783	1,608,446	715,722	17,064	143,157	985,151	5,081,300	42,001	15,695,717	8,674,420	893	275		611	200	51
591,585	1,011,703	472,650	4,650	101,554	547,110	3,080,429	24,614	9,502,000	6,388,047	372	30		341		52
518,178	596,743	243,072	13,314	41,003	138,032	2,801,007	18,287	6,093,627	3,183,373	521	245		270	200	53
13,257	13,848	56,651		10,333	2,014	70,442	11,692	216,675	134,541	926			926		54
508,349	468,381	764,349	2,887	88,899	277,846	3,207,400	15,897	8,532,247	5,218,980	345			345		55
383,979	238,239	1,798,130	62,223	67,332	297,267	6,055,612	60,480	10,985,651	6,181,559	980	250		739	300	56
335,366	346,457	1,325,767	44,123	81,590	00,124	582,170	33,145	3,804,556	3,181,235	437			437		57
160,910	118,576	634,852		27,010	44,397	953,475	18,135	2,575,256	1,597,646	511			511		58
394,523	311,499	1,169,370	3,054	79,404	102,177	8,516,305	120,737	12,824,790	4,187,608	1,973	1,333	9	631	582	59
83,260	27,031	82,130		8,680	1,750	104,176	817	376,511	214,485	22			22		60
5,792,585	5,968,049	25,513,800	5,477,324	1,825,220	1,387,088	30,182,602	734,635	104,550,091	64,068,704	21,141	4,136	442	16,563	3,765	61
4,042,956	3,121,036	23,953,817	900,968	1,541,610	1,238,065	36,835,515	694,857	80,046,355	48,515,533	20,506	4,136	442	15,988	3,765	62
1,149,029	2,846,113	1,560,983	4,486,350	283,610	148,123	2,310,717	39,778	18,509,736	16,153,241	575			575		63
82,583	93,053	112,172	157,121	20,495	36,253	375,920	3,287	1,211,810	832,603	74			74		64

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> Same number reported throughout the year.



TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.									WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.	
								Maximum month.	Minimum month.						

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

CHICAGO—Continued.															Dollars.	
1	Printing and publishing, newspapers and periodicals.	410	12,603	147	1,045	2,924	2,642	5,845	-----	-----	5,963	4,896	916	87	64	39,626,523
2	Printing and publishing.	36	4,352	15	231	831	756	2,519	Ap 2,568	Mh 2,475	2,543	2,398	98	46	1	20,084,215
3	Printing, publishing, and job printing.	65	4,756	27	215	1,203	470	2,841	De 2,897	Ap 2,778	2,901	2,237	571	41	52	12,392,106
4	Publishing without printing.	309	3,495	105	599	890	1,416	485	No 523	Jy 454	519	261	247	-----	11	7,150,202
5	Printing materials.	11	440	6	24	37	34	339	No 444	Ja 242	315	279	35	1	-----	5,298,897
6	Pumps, not including power pumps.	8	204	3	15	8	10	168	Au 180	Ja 157	177	145	32	-----	-----	402,716
7	Regalia, and society badges and emblems.	11	145	5	9	19	14	98	Mh 105	Ap 87	118	52	65	1	-----	294,169
8	Roofing materials.	14	1,526	-----	110	172	90	1,154	Au 1,317	Ja 983	1,244	1,242	2	-----	-----	8,108,529
9	Rubber tires, tubes, and rubber goods, not elsewhere specified.	12	511	5	28	31	23	424	No 544	Ja 326	520	373	144	2	1	1,639,449
10	Saddlery and harness.	33	307	34	15	12	8	238	De 277	Jy 200	290	278	12	-----	-----	1,175,812
11	Sausage, not made in slaughtering and meat-packing establishments.	49	953	47	45	52	30	779	-----	-----	818	573	245	-----	-----	3,112,295
12	Sausage.	43	592	42	29	39	19	463	Jy 479	Fe 437	477	416	61	-----	-----	1,374,527
13	Sausage casings.	6	361	5	16	13	11	316	Jy 361	Fe 280	341	157	184	-----	-----	1,737,708
14	Scales and balances.	13	481	7	28	26	21	399	No 432	Fe 371	411	378	23	10	-----	1,541,859
15	Shirts.	22	579	10	41	38	25	465	No 506	Ja 406	497	118	375	-----	-----	2,629,973
16	Signs and advertising novelties.	98	2,031	69	141	319	136	1,366	De 553	Ja 442	1,474	901	500	34	39	4,828,813
17	Electric and other signs.	63	871	40	79	182	53	511	De 553	Ja 442	585	514	68	3	-----	2,649,353
18	Advertising novelties.	35	1,160	23	62	137	83	855	No 900	Ja 721	889	387	432	31	39	2,179,480
19	Slaughtering and meat packing.	46	52,423	19	1,373	4,076	1,260	45,695	Ja 55,828	My 42,158	45,011	39,341	5,649	10	5	395,715,568
20	Smelting and refining, not from the ore.	14	302	16	20	21	12	293	Se 322	Ja 267	319	313	6	-----	-----	3,400,549
21	Sporting and athletic goods.	26	2,995	8	120	456	172	2,239	Se 2,471	Mh 1,930	2,468	1,500	889	11	50	14,734,246
22	Stamped and enameled ware, not elsewhere specified.	27	540	16	30	28	28	429	De 530	Jy 369	539	392	138	4	5	1,406,754
23	Statuary and art goods.	17	1,250	3	49	61	52	1,085	Fe 1,166	My 1,020	1,103	721	381	-----	1	3,806,636
24	Stencils and brands.	15	513	9	24	31	11	438	De 493	Ja 394	494	477	13	4	-----	822,876
25	Stoves and hot-air furnaces.	5	18	5	-----	-----	-----	13	De 14	Mh 12	15	12	1	2	-----	20,412
26	Stoves and ranges.	22	1,602	4	102	151	100	1,236	De 1,246	Ja 607	1,376	1,364	12	-----	-----	5,361,750
27	Hot-air furnaces.	13	1,370	2	80	127	89	1,072	Oc 1,246	Ja 607	1,205	1,193	12	-----	-----	4,769,685
28	Stoves, gas and oil.	9	232	2	22	24	20	164	Oc 182	Mh 147	171	171	-----	-----	-----	592,074
29	Structural ironwork, not made in steel works or rolling mills.	6	53	2	4	4	7	86	No 80	Mh 12	80	78	2	-----	-----	926,728
30	Tinware, not elsewhere specified.	89	3,751	42	243	435	103	2,928	Ja 3,490	Je 2,691	2,995	2,092	3	-----	-----	14,441,174
31	Tobacco, cigars and cigarettes.	19	4,183	14	100	186	103	3,780	Au 4,164	Ap 3,482	3,489	2,144	1,340	5	-----	21,947,040
32	Tools, not elsewhere specified.	665	2,587	738	60	55	12	1,722	Ja 2,035	Se 1,028	2,160	1,488	669	3	-----	2,669,647
33	Toys and games.	90	3,051	63	188	150	175	2,475	De 2,663	My 2,296	2,707	2,581	112	11	3	8,422,682
34	Trunks and valises.	25	541	20	32	14	25	450	No 602	Ja 275	561	281	248	21	11	718,677
35	Type founding.	56	1,480	54	83	130	41	1,172	De 1,290	Ja 1,031	1,303	1,095	198	4	6	3,599,684
36	Typewriters and supplies.	3	16	3	1	-----	-----	12	(*) 12	(*) 12	13	11	2	-----	-----	28,002
37	Varnishes.	8	64	5	4	3	3	49	Jy 52	Ja 42	51	41	7	3	-----	123,786
38	Vinegar.	30	1,036	6	100	265	143	522	Oc 572	Fe 455	546	485	59	1	1	8,471,720
39	Wall plaster and composition flooring.	6	163	5	8	16	7	127	Au 143	De 107	107	102	5	-----	-----	1,618,296
40	Washing machines and clothes wringers.	4	87	-----	13	10	2	62	Au 88	Fe 30	66	66	-----	-----	-----	278,251
41	Waste, cotton.	9	454	1	28	25	23	377	No 475	Au 317	483	476	5	2	-----	1,367,276
42	Window and door screens and weather strips.	4	135	3	11	5	3	113	No 118	Fe 108	118	89	29	-----	-----	415,876
43	Wirework, not elsewhere specified.	18	226	12	26	8	10	170	My 204	Fe 123	175	142	32	1	-----	709,719
44	Wood, turned and carved.	33	414	30	41	28	25	290	Au 316	Fe 275	298	285	10	3	-----	728,231
45	Wooden goods, not elsewhere specified.	23	576	15	24	61	22	454	De 500	Ja 397	497	453	30	11	3	882,503
46	Wool pulling.	5	159	3	10	16	5	125	My 142	Ja 110	126	121	3	2	-----	440,412
47	All other industries*.	5	66	5	6	2	-----	56	De 83	My 30	83	83	-----	-----	-----	187,822
48		974	103,192	581	4,092	9,913	4,924	83,682	-----	-----	89,378	73,291	14,986	365	736	536,406,519

\*All other industries embrace—  
 Aeroplanes, seaplanes, and airships, and parts. 1  
 Agricultural implements. 4  
 Artificial flowers. 11  
 Artificial limbs. 10  
 Asbestos products, not including steam packing. 5  
 Babbitt metal and solder. 9  
 Bags, other than paper, not including bags made in textile mills. 8  
 Bags, paper, not including bags made in paper mills. 3  
 Baking powders and yeast. 10  
 Baskets, and rattan and willow ware. 9  
 Belting and hose, rubber. 1  
 Belting and hose, woven, other than rubber. 2  
 Belting, leather. 8  
 Blacking, stains, and dressings. 22  
 Boot and shoe cut stock. 5  
 Boot and shoe findings. 4

Canning and preserving, fruits and vegetables. 2  
 Card cutting and designing. 4  
 Carpets, rag. 11  
 Carriage and wagon materials. 2  
 Cars and general shop construction and repairs by electric-railroad companies. 7  
 Chewing gum. 6  
 Chocolate and cocoa products. 1  
 Clocks. 4  
 Cloth, sponging and refinishing. 4  
 Clothing, horse. 3  
 Coffee and spice, roasting and grinding. 30  
 Coke, not including gas-house coke. 1  
 Combs and hairpins, not made from metal or rubber. 2  
 Condensed milk. 2  
 Cordage and twine. 2  
 Cordials and flavoring sirups. 8  
 Cork, cutting. 3  
 Cotton goods. 5

Cotton small wares. 2  
 Crucibles. 1  
 Drug grinding. 2  
 Dyeing and finishing textiles, exclusive of that done in textile mills. 9  
 Dyestuffs and extracts—natural. 3  
 Enameling. 5  
 Engines, steam, gas, and water. 6  
 Envelopes. 13  
 Feathers and plumes. 2  
 Felt goods. 1  
 Fertilizers. 3  
 Files. 1  
 Firearms. 1  
 Fire extinguishers, chemical. 3  
 Foundry supplies. 8  
 Galvanizing. 5  
 Gas, illuminating and heating. 2  
 Gloves and mittens, cloth, not including gloves made in textile mills. 2  
 Gloves and mittens, leather. 28  
 Glue, other than fish. 7

Gold and silver, reducing and refining, not from the ore. 4  
 Graphite, ground and refined. 1  
 Grease and tallow, not including lubricating greases. 6  
 Haircloth. 1  
 Hair work. 17  
 Hammocks. 1  
 Hardware, saddlery. 1  
 Hats and caps, other than felt, straw, and wool. 46  
 Hats, straw. 11  
 Hats, wool-felt. 4  
 Horseshoes, not made in steel works or rolling mills. 1  
 Ink, writing. 21  
 Instruments, professional and scientific. 4  
 Iron and steel, blast furnaces. 4  
 Iron and steel, steel works and rolling mills. 10  
 Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills. 9

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

\*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.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.	Owned.	Owned.	Rent. <sup>2</sup>	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
4,353,295	8,205,629	7,536,247	5,436,149	847,134	1,961,383	24,300,876	309,786	70,741,226	46,124,564	7,698	1,925	40	5,733	1,097	1		
1,260,800	2,954,456	3,640,053	233,592	127,015	1,309,497	12,417,512	145,964	28,387,010	15,823,534	2,961	10		2,951		2		
749,565	2,190,285	3,368,612	196,343	391,022	205,455	7,497,493	143,330	17,317,700	9,676,907	4,378	1,616		2,769	1,091	3		
2,342,030	3,060,888	526,082	5,006,214	326,067	446,431	4,391,001	20,492	25,036,516	20,024,123	359	800	40		19	4		
109,248	142,605	360,157		45,232	81,509	500,448	28,953	1,812,376	1,192,975	719		45		674	5		
72,167	21,470	141,657	2,849	4,838	15,897	300,524	7,175	739,234	431,535	132		40		92	6		
22,255	26,802	94,809	6,191	13,017	3,746	256,559	3,161	499,235	239,515	71				71	7		
376,778	384,863	1,520,760	379	8,753	206,389	8,795,055	364,908	13,744,658	4,584,095	2,411	380			2,031	8		
178,248	104,045	479,619		10,433	87,901	1,315,530	60,355	2,867,089	1,491,204	1,357	300			1,057	9		
52,292	25,438	305,992		31,821	28,262	1,219,601	8,804	1,941,086	712,621	136				136	10		
174,321	93,553	1,149,603	200,000	43,546	130,912	7,245,349	75,205	9,817,698	2,497,144	1,399	101	15		1,283	11		
134,026	71,797	644,447	200,000	23,111	97,933	6,006,318	68,132	7,854,520	1,720,070	1,310	101	15		1,194	12		
40,265	21,790	505,150		14,435	32,979	1,179,031	7,073	1,963,178	777,074	89				89	13		
35,753	54,887	511,501		24,351	29,356	407,921	24,779	1,355,906	803,206	478				478	14		
200,907	119,002	454,784	12,107	66,384	50,209	1,638,138	6,703	3,033,885	1,389,044	80				80	15		
407,642	349,798	1,326,920	111,523	82,770	68,672	2,218,935	53,908	5,853,444	3,580,601	898	65	43		785	16		
155,528	125,158	693,870	11,168	47,959	14,000	1,087,798	17,785	2,498,152	1,302,569	374	65			309	17		
252,114	224,640	633,050	100,355	34,811	53,763	1,131,137	36,123	3,355,292	2,188,632	524		48		476	18		
4,534,830	7,535,100	69,864,164	16,775	175,009	3,856,076	951,791,019	6,025,316	1,083,090,049	129,303,714	67,374	39,518	8,518		10,308	19		
99,520	54,500	421,201		19,520	41,770	8,315,552	70,460	9,952,370	1,557,852	540		18		522	20		
442,175	832,109	2,339,391	10,654	50,678	156,149	18,032,424	395,269	25,504,617	0,176,933	2,488	1,020	25		1,443	21		
140,662	64,193	454,760	7,020	20,230	58,541	1,087,129	24,764	2,151,966	1,040,073	471				471	22		
190,402	161,133	1,045,806	14,977	63,754	240,538	2,061,453	68,459	4,780,782	2,650,870	1,231	175	130		917	23		
68,351	40,477	520,316	7,949	18,108	21,100	306,086	14,019	1,640,453	1,220,448	100	60			100	24		
372,061	358,840	1,828,401		1,457	101	0,217	374	38,350	28,759	7				7	25		
300,884	304,241	1,605,257		40,674	411,777	3,018,458	69,272	8,061,981	4,974,226	1,526	250	100		1,176	26		
71,177	54,599	223,144		27,043	388,515	2,497,450	65,762	6,032,168	4,399,016	1,467	250	100		1,117	27		
25,135	8,795	75,835	1,000	13,631	23,292	23,036	3,570	1,129,816	605,210	59				59	28		
947,305	964,307	4,041,722	140,533	6,118	7,376	126,880	3,381	235,737	111,476	28				28	29		
348,333	430,361	4,102,530	3,963	97,630	344,711	11,842,931	250,135	20,767,737	8,674,711	8,771	4,787	40	81	3,963	30		
119,755	82,058	1,722,859	3,492	44,754	630,874	15,487,746	166,387	24,378,445	8,724,312	3,350	865			2,491	31		
678,060	598,335	3,118,773	21,274	129,191	701,764	2,740,905	24,417	6,506,290	3,740,818	25				25	32		
60,811	39,175	370,361	4,253	132,014	540,350	3,223,236	310,134	9,827,492	6,294,122	4,707	215	2,120	93	2,279	33		
352,262	339,651	1,476,671	1,500	28,505	10,432	762,549	11,165	1,547,598	773,794	250				251	34		
2,008		10,232		85,892	130,737	3,863,463	28,492	7,256,970	3,425,015	705	255			450	35		
14,611	10,182	56,143		2,400	1,408	9,244	601	35,773	25,928	9				9	36		
493,667	665,803	548,603	17,810	7,253	4,628	129,175	1,697	314,347	183,575	81				81	37		
39,688	44,607	166,967		95,231	147,082	7,363,580	74,247	11,115,727	3,077,900	2,124	1,212	15		897	38		
41,147	17,882	99,938		8,339	73,347	1,176,008	48,202	1,901,025	676,167	733	621			212	39		
104,720	33,407	507,042		7,546	3,050	408,261	2,898	760,088	294,020	1,118				1,118	40		
106,447	14,193	105,401		15,148	57,305	1,731,680	11,596	2,950,681	1,210,399	142				142	41		
93,993	25,881	186,307	1,800	24,125	9,578	634,055	12,106	1,302,437	560,276	560		20		540	42		
139,517	59,205	314,243	1,805	18,592	31,951	612,306	4,090	1,095,608	379,260	389	200			189	43		
91,348	89,169	543,878	700	31,272	52,570	753,701	10,080	1,731,248	966,567	369				365	44		
21,598	28,347	113,710		31,012	17,255	554,916	21,440	1,057,456	1,081,094	632	250	15		397	45		
25,089	2,840	79,225	13,636	4,380	13,462	322,498	3,248	981,046	355,390	391	350			41	73		
16,652,463	20,844,061	103,660,768	801,651	3,780	1,272	1,113,600	4,504	1,314,367	196,173	90	35			55	47		
				2,634,102	35,123,876	415,707,931	46,790,971	747,174,081	284,660,179	358,264	181,201	70,130	28,304		78,599	48	

Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.	4
Iron and steel, wrought pipe.	1
Ivory, shell, and bone work, not including combs and hairpins.	2
Jewelry and instrument cases.	7
Lamps and reflectors.	23
Leads.	1
Lead, bar, pipe, and sheet.	1
Lime.	2
Liquors, distilled, grain alcohol.	1
Liquors, vinous.	1
Lubricating greases.	4
Malt.	9
Matches.	9
Minerals and earths, ground or otherwise treated.	2
Mirrors, framed and unframed, not elsewhere specified.	10
Mud, glue, paste, and other adhesives, not elsewhere specified.	11

Musical instruments and materials, not specified.	20
Nets and seines.	2
Oil and cake, cottonseed.	1
Oil, linseed.	2
Oils, not elsewhere specified.	15
Oleomargarine and other butter substitutes.	8
Paper and wood pulp.	2
Paper patterns.	1
Peanuts, grading, roasting, cleaning, and shelling.	1
Pencils, lead.	1
Pens, fountain and stylographic.	4
Photographic materials.	12
Pipes, tobacco.	4
Plumbers' supplies, not elsewhere specified.	11
Pottery.	4
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	1

Pulp goods.	2
Pumps, steam and other power.	7
Refrigerators.	8
Rules, ivory and wood.	1
Safes and vaults.	1
Sand and emery paper and cloth.	1
Saws.	12
Screws, machine.	22
Sewing machines and attachments.	2
Shipbuilding, steel, new vessels.	1
Shipbuilding, wooden.	3
Show cases.	7
Silk goods, including throwsters.	4
Silversmithing and silverware.	4
Soda-water apparatus.	9
Springs, steel, car and carriage, not made in steel works or rolling mills.	10
Stationery goods, not elsewhere specified.	29
Steam fittings and steam and hot-water heating apparatus.	16
Steam packing.	17

Steel barrels, drums, and tanks.	2
Stereotyping and electrotyping.	25
Sulphuric, nitric, and mixed acids.	1
Surgical appliances.	24
Suspenders, garters, and elastic woven goods.	8
Theatrical scenery.	2
Tin foil.	2
Tobacco, chewing and smoking, and snuff.	25
Umbrellas and canes.	2
Upholstering materials, not elsewhere specified.	6
Vault lights and ventilators.	11
Wall paper, not made in paper mills.	6
Watchcases.	2
Watch materials, except watchcases.	1
Whips.	2
Windmills.	1
Window shades and fixtures.	57
Wire.	3
Wool scouring.	4

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> Same number reported throughout the year.



TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

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

1	EAST ST. LOUIS—All industries.	157	10,637	97	306	1,007	442	8,785	Ja	9,804	My	7,833	10,257	9,775	458	21	3	Dollars, 55,316,941
2	Automobile repairing.	6	33	9	2	1	1	21	Se	26	Ap	18	22	22	7			22,463
3	Bread and other bakery products.	24	106	24	4	3	70	78	De	77	Ja	66	78	71				178,204
4	Cars and general shop construction and repairs by steam-railroad companies.	7	1,202		21	85	14	1,142	De	1,196	Je	1,085	1,196	1,196				1,155,550
5	Copper, tin, and sheet-iron work.	13	44	14			1	29	Oc	31	Fe	25	31	30	1			37,335
6	Flour-mill and gristmill products.	6	403	1	27	59	27	289	Au	313	Jy	255	303	303				3,317,495
7	Food preparations, peanut butter and sweetening sirups, other than cane.	4	562	1	18	194	153	196	Je	230	Oc	179	216	214	2			1,806,999
8	Mineral and carbonated waters.	5	20	5	6		1	8	Se	14	Ja	4	13	11		2		90,391
9	Paints.	5	219	1	18	23	10	167	Oc	195	Ja	137	182	182				1,953,789
10	Printing and publishing, book and job.	5	26	4	2		3	17	Mh	18	De	16	16	13	3			29,429
11	Saddlery and harness.	3	5	3				2	(4)	2	(4)	2	2	2				2,945
12	Tobacco, cigars.	8	44	6	3	2	2	31	My	38	Jy	22	36	28	8			60,404
13	All other industries *	71	7,913	29	205	641	225	6,813					8,162	7,703	437	19	3	46,661,887

\*All other industries embrace—

Artificial stone products. 1  
Automobile bodies and parts. 1  
Awnings, tents, and sails. 1  
Baking powders. 2  
Boot and shoe findings. 1  
Boxes, wooden packing, except cigar boxes. 1

Brooms, from broom corn. 1  
Carriages and wagons, repair work only. 1  
Cars and general shop construction and repairs by electric-railroad companies. 2  
Cars, steam-railroad, not including operations of railroad companies. 2

Chemicals. 4  
Clothing, men's. 2  
Confectionery, ice cream. 3  
Cooperage, hogsheads and barrels. 1  
Druggists' preparations. 2  
Electrical machinery, apparatus, and supplies. 1

Fertilizers. 2  
Fireworks. 1  
Flax and hemp, dressed. 1  
Foundry and machine-shop products. 7  
Gas, illuminating and heating. 1  
Glass. 1  
Ice, manufactured. 1

1	PEORIA—All industries.	253	9,907	214	413	859	444	7,977	Jy	8,447	Se	7,643	8,580	6,850	1,516	188	26	44,742,730
2	Artificial stone products.	5	42	6	4	4		28	Se	45	Ja	13	34	34				65,570
3	Automobile repairing.	8	75	12	3		2	58	Jy	67	Au	46	68	68				82,852
4	Brass and bronze products.	3	132	1	9	6	9	107	De	132	Oc	69	127	115	12			321,752
5	Bread and other bakery products.	33	409	38	10	39	34	288	De	295	Au	278	296	194	100	2		656,170
6	Confectionery and ice cream.	6	99	5	10	10	3	71	Au	92	Ja	51	70	65	10	1		521,949
7	Cooperage, hogsheads and barrels.	3	245		10	4	2	222	Oc	269	Mh	173	229	218	10	1		822,096
8	Flour-mill and gristmill products.	4	62	3	4	10	6	29	No	31	Mh	28	30	30				575,565
9	Foundry and machine-shop products.	15	237	10	18	4	10	215	Jy	202	Oc	171	223	209	14			584,470
10	Ice, manufactured.	3	93		9	7	1	76	Jy	113	Ja	47	65	64	1			501,814
11	Lumber, planing-mill products, not including planing mills connected with sawmills.	6	157	1	11	5	2	138	Se	164	Ja	109	155	155				627,232
12	Marble and stone work.	7	108	13	11	19	3	62	Au	73	Ja	51	62	62				322,406
13	Mineral and carbonated waters.	4	40	3	9	10	3	15	Oc	19	Ja	10	23	21	5			166,968
14	Printing and publishing, book and job.	21	274	22	24	22	17	189	De	203	Ja	173	202	144	47	9	2	1,403,742
15	Printing and publishing, newspapers and periodicals.	9	429	8	27	67	43	284	Mh	290	Ap	278	288	115	26	147		547,617
16	Tobacco, cigars.	27	216	27	5	4	3	177	De	269	Ap	135	253	94	158	1		279,758
17	All other industries *	99	7,279	65	243	648	306	6,017					6,446	5,262	1,133	27	24	37,262,763

\*All other industries embrace—

Agricultural implements. 3  
Artificial limbs. 2  
Automobile bodies and parts. 3  
Awnings, tents, and sails. 1  
Baking powders. 1  
Bookbinding and blank-book making. 3  
Boxes, cigar. 1  
Boxes, set-up paper boxes and shipping containers. 2

Boxes, wooden packing, except cigar boxes. 2  
Butter. 2  
Canning and preserving, vegetables. 1  
Carpets, rag. 2  
Carriages and wagons, including repairs. 2  
Cars and general shop construction and repairs by electric-railroad companies. 1

Cars and general shop construction and repairs by steam-railroad companies. 2  
Clearing and polishing preparations. 2  
Clothing, men's. 2  
Clothing, women's. 2  
Coffee, roasting and grinding. 1  
Coffins, burial cases, and undertakers' goods. 1  
Copper, tin, and sheet-iron work. 6

Cordage and twine. 1  
Druggists' preparations. 1  
Food preparations, peanut butter and sweetening sirups, other than cane. 2  
Furniture. 2  
Gas, illuminating and heating. 1  
Gas machines. 1  
Gloves and mittens, cloth, not including gloves made in textile 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).



[illegible][illegible]

Iron and steel, steel works and rolling mills.....	1	Lumber, planing-mill products, not including planing mills connected with sawmills.....	2	Petroleum, refining.....	3	Smelting and refining, zinc.....	3
Iron and steel, forgings, not made in steel works or rolling mills.....	2	Marble and stone work.....	1	Pickles and sauces.....	2	Spring, steel, railway.....	1
Iron and steel, welding.....	1	Minerals and earths, ground or otherwise treated.....	1	Printing, job.....	1	Structural ironwork, not made in steel works or rolling mills.....	1
Liquors, malt.....	1	Paving materials.....	1	Signs, other than electric.....	1	Sulphuric, nitric, and mixed acids.....	1
Looking-glass and picture frames.....	1		2	Slaughtering and meat packing.....	3	Wirework, not elsewhere specified.....	1

1,505,197	1,790,221	8,151,021	59,971	191,621	1,090,017	34,065,482	1,253,436	57,074,893	21,155,975	25,510	14,079	666	110	10,655	3,117
5,191	2,372	26,512		2,070	374	31,408	1,576	71,805	41,791	35			12		23
6,372	2,100	70,906		0,171	331	37,655	3,330	138,995	98,010	123					123
47,217	18,309	146,277		8,150	46,010	204,823	13,901	607,080	328,263	131	60				71
46,194	124,447	231,893	320	2,239	41,106	1,291,404	33,633	2,115,132	910,005	283					283
53,800	18,167	69,704		3,408	350,309	14,215	609,309	220,465	310						310
48,510	11,983	227,614		8,376	953,805	7,740	1,474,438	512,740	905	770					35
7,500	25,700	34,050		1,200	2,258	019,318	7,827	909,318	247,673	400					360
42,037	14,027	284,001	300	6,696	15,631	283,508	11,600	741,650	446,500	516	8				507
21,064	10,580	84,905		6,787	12,552	50,508	402,685	333,225	1,075	1,075					22
33,854	6,992	153,330		3,205	10,411	209,107	7,080	561,814	285,617	368	150		25	103	25
22,860	16,507	89,875	2,956	7,140	2,054	179,329	7,468	401,636	214,830	827	500			327	
9,995	7,613	18,412		3,075	8,564	138,140	1,713	271,078	131,225	32	4			28	
50,685	32,848	181,935	17,192	13,657	3,264	237,222	6,004	607,624	453,108	260		60		200	1
90,078	135,615	183,200	30,420	11,370	6,430	208,447	10,003	1,092,411	783,961	203				203	
9,928	6,857	124,376	160	3,798	45,007	201,052	600	420,523	227,781	1				1	
1,009,252	1,369,104	6,222,906	8,614	99,112	1888,456	20,580,283	1,068,979	46,523,899	15,874,637	20,082	11,412	666	13	7,991	3,006

Grease and tallow, not including lubricating greases.....	1	Liquors, malt.....	2	Pickles, preserves, and sauces.....	2	Structural ironwork, not made in steel works or rolling mills.....	1
Hand stamps.....	1	Malt.....	1	Pumps, not including power pumps.....	1	Tinware, not elsewhere specified.....	1
Hardware, locks.....	1	Mattresses and spring beds, not elsewhere specified.....	1	Saddlery and harness.....	1	Tobacco, smoking.....	2
Ink, writing.....	1	Molds and patterns, not including paper patterns.....	1	Scales and balances.....	1	Tools, not elsewhere specified.....	1
Iron and steel, forgings, not made in steel works or rolling mills.....	1	Paints.....	1	Shirts.....	1	Vinegar.....	3
Iron and steel, welding.....	1	Paper and wood pulp.....	2	Slaughtering and meat packing.....	1	Washing machines and clothes wringers.....	1
Iron, forgings.....	1	Patent medicines and compounds.....	3	Steam fittings and steam and hot-water heating apparatus.....	1	Wirework, not elsewhere specified.....	1
Liquors, distilled, grain alcohol.....	4	Photo-engraving.....	1	Steel barrels, drums, and tanks.....	1		
				Stoves and hot-air furnaces.....	2		

<sup>4</sup> Same number reported throughout the year.



## MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

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

1	ROCKFORD—All industries...	312	17,760	186	853	989	740	14,992	De 17,124	My 12,510	17,126	13,812	3,204	96	14	Dollars. 68,562,621
2	Artificial stone products.....	4	17	6	3	1	7	8	Jy <sup>3</sup> 12	Ja <sup>3</sup> 1	12	12	.....	.....	.....	44,423
3	Automobile repairing.....	19	116	15	8	1	7	85	Jy <sup>3</sup> 94	Fa <sup>3</sup> 75	88	87	1	.....	.....	174,894
4	Bread and other bakery products.....	28	191	30	4	14	130	Mh 177	Ja <sup>3</sup> 123	146	123	23	.....	.....	.....	331,863
5	Clothing, men's.....	4	234	3	13	6	205	Au 214	Mh 186	207	24	180	3	.....	.....	470,242
6	Confectionery and ice cream.....	13	180	8	11	9	121	No 56	Je 27	53	18	32	.....	3	.....	508,104
7	Confectionery.....	7	63	3	6	9	40	No 56	Je 27	53	18	32	.....	3	.....	254,097
8	Ice cream.....	9	97	3	6	7	81	Jy 94	De 45	70	42	25	3	.....	.....	253,407
9	Copper, tin, and sheet-iron work.....	6	30	9	1	.....	20	Oc 23	Je 18	23	23	.....	.....	.....	.....	42,677
10	Foundry and machine-shop products.....	25	1,659	15	79	111	1,407	De 1,766	My 1,104	1,763	1,279	445	39	.....	.....	4,557,466
11	Furniture.....	32	2,387	1	100	124	2,097	De 2,021	Ap 529	2,654	2,503	147	4	.....	.....	8,394,258
12	Knit goods.....	5	1,812	3	34	19	1,712	Oc 1,776	Ap 1,632	1,769	795	966	6	2	.....	8,306,941
13	Machine tools.....	10	2,520	3	92	152	2,204	De 2,650	Je 1,700	2,650	2,540	116	.....	.....	.....	9,111,193
14	Marble and stone work, monuments and tombstone.....	5	24	4	3	4	13	My 17	Ja <sup>3</sup> 7	15	15	.....	.....	.....	.....	89,192
15	Models and patterns, not including paper patterns.....	5	30	7	2	.....	20	De 28	Ja 14	23	21	1	1	.....	.....	22,573
16	Printing and publishing, book and job.....	16	194	12	20	15	132	Oc 143	Fe 114	137	72	60	4	1	.....	401,441
17	Printing and publishing, newspapers and periodicals.....	5	178	.....	17	54	74	De <sup>3</sup> 77	My <sup>3</sup> 72	77	76	1	.....	.....	.....	348,511
18	Pumps, not including power pumps.....	4	274	.....	22	9	235	De 251	Je 215	134	132	2	.....	.....	.....	927,391
19	Tobacco, cigars.....	5	20	6	.....	.....	14	De 20	My <sup>3</sup> 9	20	11	9	.....	.....	.....	24,427
20	Tools, not elsewhere specified.....	8	111	2	25	3	74	Ja 104	Je 48	92	91	1	.....	.....	.....	257,253
21	All other industries*.....	115	7,794	59	419	475	6,441	.....	.....	7,187	5,948	1,195	36	8	.....	34,549,052

\*All other industries embrace—  
Agricultural implements..... 2  
Automobile bodies and parts..... 6  
Belting, leather..... 1  
Bookbinding and blank-bookmaking..... 2  
Boots and shoes, not including rubber boots and shoes..... 1  
Boxes, set-up paper boxes and shipping containers..... 2  
Boxes, wooden packing, except cigar boxes..... 1  
Brass and bronze products..... 1  
Butter..... 2

Buttons..... 1  
Canning and preserving, vegetables.. 1  
Carpets, rag..... 1  
Carriages and wagons, including repairs..... 2  
Cars and general shop construction and repairs by electric-railroad companies..... 2  
Cars and general shop construction and repairs by steam-railroad companies..... 1  
Cash registers and calculating machines..... 1

Cleaning preparations..... 1  
Cutlery and edge tools, augers, bits, chisels, and planes..... 1  
Dairymen's and poultrymen's supplies..... 3  
Electrical machinery, apparatus, and supplies..... 3  
Engines, steam, gas, and water..... 3  
Flour-mill and gristmill products..... 3  
Food preparations, not elsewhere specified..... 2  
Fur goods..... 1  
Galvanizing..... 1

Gas, illuminating and heating..... 1  
Gas machines..... 1  
Glass, cutting, staining, and ornamenting..... 2  
Grease and tallow, soapstock..... 2  
Hand stamps..... 1  
Hardware..... 3  
Ice, manufactured..... 2  
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills..... 1  
Iron and steel, forgings, not made in steel works or rolling mills..... 1

1	SPRINGFIELD—All industries.....	181	6,448	168	291	356	268	5,365	Oc 5,769	Mh 5,031	5,913	4,270	1,608	20	15	21,594,755
2	Automobile repairing.....	9	107	13	4	1	4	85	Se 107	Mh 62	102	101	1	.....	.....	90,536
3	Bread and other bakery products.....	18	176	27	9	12	15	113	Oc 120	Mh 108	121	88	32	1	.....	266,950
4	Cars and general shop construction and repairs by steam-railroad companies.....	4	420	.....	14	8	1	397	De 435	Je 369	435	435	.....	.....	.....	375,202
5	Confectionery and ice cream.....	8	84	7	6	3	3	65	De 74	Ja 52	70	26	39	.....	5	87,148
6	Copper, tin, and sheet-iron work.....	15	89	21	5	4	5	54	Oc <sup>3</sup> 60	Ja <sup>3</sup> 48	59	55	2	.....	.....	75,434
7	Foundry and machine-shop products.....	12	394	10	38	33	21	292	No 388	Fe 201	308	307	.....	1	.....	1,809,240
8	Lumber, planing-mill products, not including planing mills connected with sawmills.....	4	87	4	5	5	1	72	Se 91	Ja <sup>3</sup> 56	79	75	.....	4	.....	196,068
9	Marble and stone work, monuments and tombstones.....	3	20	4	4	1	2	9	Au <sup>3</sup> 10	Ja <sup>3</sup> 6	10	10	.....	.....	.....	22,388
10	Mineral and carbonated waters.....	5	22	6	1	.....	.....	15	Je <sup>3</sup> 18	Fe <sup>3</sup> 12	14	14	.....	.....	.....	54,653
11	Printing and publishing, book and job.....	12	166	6	12	10	11	127	No 143	Ja 123	139	102	36	1	.....	422,592
12	Printing and publishing, newspapers and periodicals.....	12	426	5	21	80	48	272	My 295	Ja <sup>3</sup> 262	319	275	43	1	.....	632,980
13	Saddlery and harness.....	4	18	4	1	2	1	10	Ja <sup>3</sup> 11	My <sup>3</sup> 10	10	10	.....	.....	.....	37,310
14	Tobacco, cigars.....	15	88	15	6	2	.....	65	No <sup>3</sup> 78	Je 58	78	62	11	5	.....	41,149
15	All other industries*.....	60	4,351	46	165	195	156	3,789	.....	.....	4,169	2,710	1,444	5	10	17,483,125

\*All other industries embrace—  
Agricultural implements..... 4  
Artificial stone products..... 3  
Automobile bodies and parts..... 1  
Awnings, tents, and sails..... 2  
Boots and shoes, not including rubber boots and shoes..... 1

Boxes, cigar..... 1  
Boxes, wooden packing, except cigar boxes..... 1  
Brick, building..... 2  
Brooms, from broom corn..... 1  
Butter..... 2  
Canning and preserving, vegetables..... 2

Carriages and wagons, repair work only..... 2  
Cars and general shop construction and repairs by electric-railroad companies..... 1  
Clothing, women's, shirt waists and dresses, except house dresses..... 1

Electrical machinery, apparatus, and supplies..... 1  
Engines, steam, gas, and water..... 2  
Flour-mill and gristmill products..... 1  
Food preparations, not elsewhere specified..... 2  
Foundry supplies..... 1  
Gas, illuminating and heating..... 1

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## MANUFACTURES—ILLINOIS.

63

## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 2,384,223	Dollars. 2,156,066	Dollars. 18,379,147	Dollars. 222,464	Dollars. 211,163	Dollars. 2,692,117	Dollars. 35,158,408	Dollars. 1,408,501	Dollars. 74,918,953	Dollars. 38,352,044	33,063	12,878	1,375	114	1,100	18,406	8,202	1
4,000	1,200	9,140	.....	660	221	18,007	344	47,400	29,100	34	.....	.....	15	.....	19	.....	2
9,719	5,555	105,539	300	11,598	9,414	132,874	6,035	318,078	179,169	140	.....	.....	2	.....	138	.....	3
7,879	27,218	162,104	652	13,643	1,787	744,700	22,487	1,160,505	393,399	119	.....	.....	.....	.....	119	.....	4
43,025	25,198	130,890	.....	9,300	22,200	727,452	5,571	1,132,613	369,590	97	.....	.....	.....	.....	320	.....	5
35,724	15,390	99,031	70	14,700	21,469	426,688	14,543	732,788	291,557	320	.....	.....	.....	.....	97	.....	6
4,688	8,466	28,751	70	4,230	12,375	97,546	3,436	175,423	74,441	37	.....	.....	.....	.....	37	.....	7
31,036	6,924	70,280	.....	10,530	9,091	329,142	11,107	557,365	217,110	283	.....	.....	.....	.....	283	.....	8
1,940	.....	29,031	.....	2,540	843	54,382	390	103,850	40,009	10	.....	.....	.....	.....	10	.....	9
246,042	165,299	1,926,615	.....	17,670	194,049	1,619,554	82,243	5,149,751	3,417,957	2,406	700	.....	.....	140	1,565	1,340	10
239,138	353,977	2,546,861	100	17,205	171,786	4,650,615	121,937	9,836,745	5,055,193	5,798	3,230	.....	.....	.....	2,508	450	11
174,797	73,091	1,792,917	192,387	25,696	458,166	5,421,402	95,901	9,728,405	4,211,412	2,184	930	.....	.....	.....	1,254	460	12
408,118	305,361	3,058,942	.....	1,092	494,128	2,063,503	126,843	8,488,059	5,457,693	3,982	1,365	.....	.....	.....	2,617	1,075	13
11,000	4,800	21,584	75	501	379	61,295	1,340	119,071	57,616	60	.....	.....	.....	.....	51	.....	14
7,800	300	21,805	.....	1,062	44	10,120	2,188	67,579	49,271	30	.....	.....	.....	.....	30	.....	15
36,712	35,850	123,836	1,441	17,805	3,880	185,074	5,370	487,825	209,772	127	.....	.....	.....	.....	127	.....	16
61,020	86,904	96,758	2,126	3,720	15,158	201,722	7,021	583,507	373,804	98	.....	.....	.....	.....	98	.....	17
69,085	28,808	331,580	.....	3,800	46,332	191,708	12,824	832,414	627,822	565	75	.....	.....	160	330	100	18
57,747	13,229	12,383	.....	650	5,885	21,055	281	46,882	24,640	2	.....	.....	.....	.....	2	.....	19
1,174,871	1,013,886	7,816,772	3,077	67,906	8,987	66,810	7,219	334,021	259,902	274	.....	.....	.....	150	124	.....	20
.....	.....	.....	.....	.....	1,237,380	17,674,878	895,346	35,748,707	17,178,483	17,708	6,578	1,375	90	740	8,925	4,787	21

Iron and steel, tempering and welding.....	2	Millinery and lace goods, not elsewhere specified.....	1	Pens, fountain and stylographic.....	1	Slaughtering and meat packing.....	2
Leather goods, not elsewhere specified.....	1	Mineral and carbonated waters.....	3	Perfumery and cosmetics.....	1	Stamped ware, not elsewhere specified.....	1
Leather, tanned, curried, and finished.....	2	Minerals and earths, ground or otherwise treated.....	1	Photographs and graphophones.....	1	Stoves, gas and oil.....	2
Lubricating greases.....	1	Mirrors, framed and unframed, not elsewhere specified.....	1	Photo-engraving.....	1	Textile machinery and parts.....	1
Lumber and timber products.....	1	Musical instruments, pianos.....	2	Pickles and sauces.....	1	Tinware, not elsewhere specified.....	2
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1	Musical instruments, piano materials.....	2	Plated ware, hollow ware.....	1	Toys and games.....	1
Mattresses and spring beds, not elsewhere specified.....	3	Oil, composite.....	1	Saddlery and harness.....	2	Trunks and valises.....	1
.....	2	Paper and wood pulp.....	2	Sewing-machine cases.....	1	Varnishes.....	1
.....	.....	Patent and proprietary medicines.....	2	Sewing machines.....	1	Wall plaster and composition flooring.....	1
.....	.....	Paving materials.....	1	Shipbuilding, wooden, including boat building.....	1	Watch cases.....	1
.....	.....	.....	.....	Show cases.....	1	Watch materials, except watchcases.....	1
.....	.....	.....	.....	Signs, other than electric.....	1	Wirework, not elsewhere specified.....	2
.....	.....	.....	.....	.....	.....	Woolen goods.....	1

774,301	601,790	5,077,077	64,595	97,843	681,369	11,001,842	482,110	22,723,365	10,339,413	7,849	3,205	70	13	.....	4,495	525	1
6,085	3,280	95,183	.....	8,360	685	90,489	2,080	272,799	173,330	63	.....	.....	3	.....	60	.....	2
10,833	23,079	101,130	.....	9,528	1,003	496,765	16,829	883,370	309,782	120	.....	.....	.....	.....	129	.....	3
39,868	10,348	633,825	.....	.....	1,644	252,896	34,314	971,251	684,041	475	220	.....	.....	.....	255	.....	4
4,970	6,926	41,150	.....	8,495	1,263	202,260	3,905	323,608	117,443	44	.....	.....	.....	.....	44	13	5
3,316	8,944	56,307	.....	4,729	625	75,574	1,145	211,004	134,285	7	.....	.....	2	.....	5	.....	6
88,180	53,441	317,379	1,078	1,380	57,288	1,020,411	27,022	2,030,208	982,175	805	.....	.....	.....	.....	805	.....	7
12,916	6,282	84,307	150	874	6,160	168,799	3,650	304,352	131,003	180	175	.....	.....	.....	14	.....	8
5,770	2,370	6,870	.....	1,416	89	36,730	500	58,572	21,342	62	.....	.....	.....	.....	62	.....	9
3,000	.....	12,975	300	840	816	49,036	561	88,221	38,624	25	.....	.....	.....	.....	25	.....	10
28,531	18,822	154,614	6,701	13,320	3,917	194,140	4,614	484,862	289,138	117	.....	.....	.....	.....	117	.....	11
75,762	88,021	270,305	38,604	10,073	6,039	230,531	5,811	956,964	710,622	218	.....	.....	.....	.....	218	.....	12
.....	702	6,844	.....	1,800	154	21,500	593	50,765	28,702	3	.....	.....	.....	.....	3	.....	13
6,388	2,080	47,048	.....	3,918	19,005	72,071	316	200,531	128,144	8	.....	.....	.....	.....	3	.....	14
488,222	377,489	3,248,954	17,102	33,080	581,712	8,975,670	379,300	15,887,852	6,532,882	5,610	2,870	70	8	.....	2,665	512	15

Gloves and mittens, cloth, not including gloves made in textile mills.....	1	Jewelry.....	1	Optical goods.....	2	Toys and games.....	1
Hair work.....	1	Lamps.....	2	Patent and proprietary medicines.....	2	Wall plaster and composition flooring.....	1
Hand stamps.....	1	Liquors, malt.....	1	Photo-engraving.....	1	Watch materials, except watchcases.....	2
House-furnishing goods, feather pillows and beds.....	1	Mattresses and spring beds, not elsewhere specified.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Watches.....	1
Ice, manufactured.....	2	Models and patterns, not including paper patterns.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	2	Window and door screens.....	2
.....	.....	.....	.....	.....	.....	Woolshoddy.....	1

<sup>2</sup> Same number reported for one or more other months.



## MANUFACTURES—ILLINOIS.

TABLE 43.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.				
						Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	ALTON.....	60	3,688	45	208	99	100	3,236	Se	3,333	Je	3,163	3,338	2,820	517	1	.....	Dollars.	12,813,525
2	AURORA.....	133	8,016	112	364	496	436	6,008	No	6,969	Ap	6,358	6,858	5,448	1,115	217	78		35,307,941
3	BELLEVILLE.....	141	3,723	127	201	154	81	3,160	Se	3,338	Ja	2,558	3,380	2,547	715	109	9		8,755,624
4	BEEWYNN.....	15	42	14	2	1	.....	25	Je	29	Fe	21	25	21	4	.....	.....		77,220
5	BLOOMINGTON.....	83	3,306	64	145	186	93	2,818	No	2,912	Ja	2,728	2,955	2,633	280	23	19		7,830,947
6	BLUE ISLAND.....	34	1,417	32	41	113	51	1,180	Oc	1,610	Ja <sup>a</sup>	824	1,516	1,287	228	1	.....		9,479,428
7	CAIRO.....	55	2,081	27	108	97	87	1,792	De	2,043	Ap	1,520	1,990	1,700	294	1	1		6,961,242
8	CANTON.....	33	1,544	36	34	119	59	1,296	De	1,872	Je	575	1,811	1,570	221	20	.....		15,651,982
9	CENTRALIA.....	30	1,117	26	21	41	26	1,003	De	1,071	Ap	938	1,068	845	219	2	2		1,841,038
10	CHAMPAIGN.....	80	1,331	75	57	65	71	1,003	No	1,226	Fe	907	1,209	1,070	136	1	2		3,122,854
11	CHICAGO HEIGHTS.....	103	6,621	69	311	592	321	5,328	No	5,755	Ap	4,882	5,977	5,537	394	42	4		36,340,280
12	CICERO.....	92	20,681	63	584	3,571	1,709	14,754	De	10,486	Mh	14,006	16,750	13,342	3,366	35	7		49,841,122
13	DANVILLE.....	112	4,918	114	160	192	209	3,343	Ja	3,485	Je	3,139	3,809	3,537	269	3	.....		14,278,504
14	DECATUR.....	103	6,860	63	351	487	266	5,638	De	6,466	Ap	5,159	6,573	5,741	719	91	22		31,209,758
15	ELGIN.....	80	7,607	51	211	232	277	6,846	De	7,241	My	6,391	7,307	4,323	2,825	68	91		24,781,665
16	EVANSTON.....	101	1,876	109	60	194	108	1,405	De	1,540	Oc	1,160	1,660	1,422	227	7	4		13,989,316
17	FOREST PARK.....	28	252	21	24	3	12	192	Se	222	Ja	114	218	205	12	1	.....		847,781
18	FREEPORT.....	76	3,772	58	126	231	180	3,177	De	3,694	Ja	2,681	3,772	3,266	445	31	30		16,335,710
19	GALESBURG.....	77	2,620	68	145	100	85	2,222	Oc	2,531	Mh	1,986	2,592	2,240	244	108	.....		6,518,226
20	GRANITE CITY.....	37	6,220	28	268	340	91	5,493	Fe	7,123	Jy	3,913	6,374	5,821	519	32	2		41,585,586
21	HERRIN.....	12	77	17	2	3	3	52	Jy	63	Ja <sup>a</sup>	43	44	35	9	.....	.....		214,771
22	JACKSONVILLE.....	59	1,307	54	57	77	28	1,091	De	1,151	Mh	1,041	1,137	850	276	4	7		2,856,739
23	JOLIET.....	166	13,215	124	445	990	397	11,259	Ja	12,120	Oc	9,034	11,579	10,372	1,187	16	4		60,590,814
24	KANKAKEE.....	51	2,151	50	61	51	30	1,959	Oc	2,073	Ap	1,873	1,949	1,180	619	94	56		6,485,941
25	KEWANEE.....	37	4,546	35	123	208	181	3,909	De	5,039	Ja	2,871	4,907	4,378	484	28	17		12,110,122
26	LA SALLE.....	38	2,015	34	70	74	45	1,792	Oc	1,978	De	1,640	1,864	1,849	12	2	1		16,012,769
27	LINCOLN.....	33	279	30	25	10	20	194	Oc	308	Fe	153	270	175	87	2	6		1,091,457
28	MATTOON.....	65	1,342	70	61	44	33	1,134	No	1,207	Ap	1,081	1,206	1,128	76	2	.....		2,979,674
29	MAYWOOD.....	27	2,563	28	45	162	111	2,217	Au	2,457	Ap	1,954	2,246	1,820	426	.....	.....		16,289,412
30	MOLINE.....	61	6,484	37	222	519	262	5,444	Ja	5,838	Je	4,946	5,791	5,474	290	22	5		42,343,340
31	MURPHYSBORO.....	28	1,364	18	70	99	38	1,139	Se	1,232	Ja	1,046	1,206	998	208	.....	.....		4,424,630
32	OAK PARK.....	44	605	38	29	110	45	383	Se	408	Ja	344	392	361	29	.....	2		8,631,438
33	OTTAWA.....	62	928	51	48	64	36	729	De	872	Fe	558	875	748	127	.....	.....		5,257,518
34	PEKIN.....	37	1,069	32	35	50	18	934	Oc	1,219	Jy	451	1,043	1,020	21	2	.....		6,761,429
35	QUINCY.....	183	5,550	119	266	460	262	4,443	De	5,171	Ap	3,672	5,266	4,327	857	45	37		21,553,108
36	ROCK ISLAND.....	83	3,929	54	190	313	164	3,208	Ja	3,689	Jy	2,690	3,245	2,936	297	7	5		24,363,724
37	STREATOR.....	69	1,516	60	56	49	50	1,301	Au	1,494	Ja	1,090	1,269	1,033	220	14	2		6,338,531
38	URBANA.....	43	626	37	38	24	18	509	De	555	My	446	564	455	55	54	.....		1,414,929
39	WAUKEGAN.....	52	3,071	31	149	237	116	2,538	Se	2,937	Oc	2,028	3,247	2,790	422	11	24		22,734,451

<sup>a</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).<sup>b</sup> 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.)

[illegible]

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

[illegible]

\* 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

INDIANA

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

CONTENTS

	Page		Page
EXPLANATION OF TERMS.....	2	Principal industries in cities of 50,000 inhabitants or more, with per cent of total for state.....	19
GENERAL STATISTICS		Number and horsepower of types of prime movers.....	20
General character of the state.....	3	Fuel consumed.....	20
Comparative summary.....	4	SPECIAL STATISTICS	
Statistics for the state, by counties.....	5	Iron and steel—Blast furnaces and steel works and rolling mills....	21
Principal industries, ranked by value of products.....	6	Slaughtering and meat packing.....	21
Persons engaged in manufacturing industries.....	7	Automobiles, including bodies and parts.....	22
Average number of wage earners for selected industries, with per cent, by sex and age.....	7	Flour-mill and gristmill products.....	22
Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more.....	8	Agricultural implements.....	23
Wage earners, by months.....	8	Glass.....	23
Wage earners, by months, for selected industries and for cities.....	8	Butter, cheese, and condensed milk.....	23
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities.....	10	Printing and publishing.....	23
Size of establishments, by average number of wage earners, for selected industries and for cities.....	12	Canning and preserving.....	24
Size of establishments, by value of products.....	13	Lumber and timber products.....	24
Size of establishments, by value of products, for selected industries.....	14	Laundries.....	24
Size of establishments, by value of products, for cities of 10,000 inhabitants or more.....	15	Dyeing and cleaning.....	24
Character of ownership, for selected industries and for cities.....	16	Custom sawmills and gristmills.....	25
Manufactures, by population groups, in cities of 10,000 inhabitants or more.....	18	GENERAL TABLES	
		Table 31.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909.....	26
		Table 32.—Detailed statement of all industries combined and specified industries: 1919.....	30





## 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.

(2)

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.



# INDIANA.

## GENERAL STATISTICS.

General character of the state.—Indiana has a gross area of 36,354 square miles, of which 36,045 represent land surface. The inhabitants of the state in 1900 numbered 2,516,462; in 1910, 2,700,876; and in 1920, 2,930,390. In total population Indiana ranked eleventh among the states in 1920. The number of inhabitants per square mile in 1910 was 74.9, the corresponding figure for 1920 being 81.3.

In 1920 there were 31 cities in the state having more than 10,000 inhabitants. Six of these—Evansville, Fort Wayne, Gary, Indianapolis, South Bend, and Terre Haute—had more than 50,000 inhabitants. Twenty-nine of these cities (exclusive of Gary and Whiting), with a combined population of 1,106,302 in that year, formed 37.8 per cent of the total for Indiana, and in 1919 reported 62.5 per cent of the value 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 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 are not available for comparison of county totals for 1919 with those of prior censuses. Statistics for this census, however, show that two counties—Lake and Marion—reported 48.8 per cent of the total value of products for the state and 33.6 per cent of the total number of wage earners.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always satisfactory 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 35.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 2,000 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 are shown in this table from 1914 to 1919. Statistics for Gary and Whiting can not be shown separately without disclosing individual operations.

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, and for the total industries of each of the 29 cities for which separate statistics can be shown. There were a number of industries in the state in 1919 in which the number of female wage earners predominated. The 29 cities combined reported a slightly larger proportion of the female wage earners than the state as a whole, 17.6 per cent as compared with 15 per cent for the state.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Indiana. In that year 14.9 per cent of the wage earners were included in the group "48 and under," as against 32.6 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 32.9 per cent of the total wage earners, as compared with 16.1 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, 93.3 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 26.2 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 6.7 per cent of the total number of manufacturing establishments in the state, but reported 73.8 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 in the case of all items 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 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 is, of itself, no real index of manufacturing activities. The cities of Gary, Jeffersonville, Michigan City, and Whiting are omitted to avoid disclosure of individual operations.

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table, although corporations owned but 37.4 per cent of the number of establishments in the state in 1919, they reported 91.7 per cent of the average number of wage earners and 93.5 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 81,451, or 47 per cent, and the value of products, \$1,121,465,264, or 171.7 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 29 cities (exclusive of Gary and Whiting), in 1919 represented 46.5 per cent of the total in the state. They reported in that year 66.9 per cent of the average number of wage earners and 62.5 per cent of the total value of products.

Principal industries in Evansville, Fort Wayne, Indianapolis, South Bend, and Terre Haute, with per cent of total for state (Table 16).—This table includes all industries in Indianapolis having products of \$2,000,000 and over, and in Evansville, Fort Wayne, South Bend, and Terre Haute, all industries having products of \$500,000 and over, the figures being given for those which can be shown without disclosing the operations of individual establishments.

It is deemed of first importance to present statistics of 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, since to do so might disclose the operations of establishments located outside, by the simple deduction of the totals shown for the industry in the city from that given in the detailed state table.

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 386,209 horsepower, or 54.4 per cent. Owned power increased 213,779 horsepower, or 42.2 per cent, while rented power showed a gain of 172,430 horsepower, or 85.1 per cent, during the five-year 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.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	7,916	8,022	7,909	7,044	7,128	-1.3	0.7	13.1	-1.2
Persons engaged.....	330,145	233,270	218,263	176,227	( <sup>2</sup> )	41.5	6.9	23.9	.....
Proprietors and firm members.....	6,708	7,229	7,074	7,191	( <sup>2</sup> )	-6.4	-5.8	6.7	.....
Salaried employees.....	45,797	28,538	23,605	14,862	10,447	60.5	20.9	58.8	42.3
Wage earners (average number).....	277,580	197,503	186,984	154,174	139,017	40.5	5.6	21.3	10.9
Primary horsepower.....	1,095,912	709,703	633,377	380,758	325,919	54.4	12.1	66.3	16.8
Capital.....	\$1,335,714,103	\$668,863,232	\$508,717,197	\$312,071,234	\$219,321,080	99.7	31.5	63.0	42.3
Salaries and wages.....	402,159,443	155,854,826	121,815,291	87,086,888	69,251,062	158.0	27.9	39.9	25.8
Salaries.....	85,116,446	36,596,497	26,304,675	15,028,789	9,970,931	132.6	39.1	75.0	50.7
Wages.....	317,042,997	119,258,329	95,510,616	72,058,099	59,280,131	165.8	24.9	32.5	21.6
Paid for contract work.....	3,802,139	1,949,324	2,145,858	1,360,092	( <sup>2</sup> )	95.0	-9.2	57.8	.....
Rent and taxes.....	79,286,180	33,332,276	30,179,792	* 2,373,100	( <sup>2</sup> )	137.9	10.4	.....	13.0
Cost of materials.....	1,174,960,568	423,857,187	334,374,753	220,507,007	195,162,566	177.2	26.8	51.6	16.9
Value of products.....	1,898,753,387	730,795,021	579,075,046	393,954,405	337,071,630	169.8	26.2	47.0	10.9
Value added by manufacture <sup>4</sup> .....	723,802,819	306,937,864	244,700,293	173,447,398	141,909,084	135.8	25.4	41.1	22.2

<sup>1</sup>A minus sign (-) denotes decrease.

<sup>2</sup> Figures not available.

<sup>3</sup> Exclusive of internal revenue.

<sup>4</sup> Value of products less cost of materials.



# MANUFACTURES—INDIANA.

5

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 horse-power.
		Average number.	Wages.					
The state.....	7,916	277,580	\$317,012,907	\$79,286,180	\$1,174,950,568	\$1,808,753,387	\$723,802,819	1,095,912
Adams.....	70	650	619,046	87,459	4,104,868	6,110,251	2,005,393	3,354
Allen.....	280	16,509	17,592,067	1,777,779	38,563,244	77,805,607	39,242,363	45,063
Bartholomew.....	63	1,578	1,335,313	258,434	5,470,469	8,678,779	3,208,310	3,788
Benton.....	15	34	24,306	2,102	70,125	130,653	66,528	76
Blackford.....	30	1,239	1,512,228	359,213	3,045,284	9,085,041	6,039,757	5,305
Boone.....	60	608	440,495	63,648	3,007,665	4,756,040	1,658,375	1,867
Brown.....	14	63	26,163	1,114	78,914	146,953	68,039	204
Carroll.....	41	173	149,068	11,900	442,612	838,250	395,038	1,518
Cass.....	84	2,606	3,399,385	82,165	7,232,446	11,695,351	4,482,905	7,263
Clark.....	62	1,536	1,751,977	417,182	5,972,163	9,514,530	3,542,367	9,477
Clay.....	71	1,206	1,182,164	73,555	2,934,530	5,280,021	2,345,491	5,517
Clinton.....	51	1,454	1,449,574	146,444	4,729,623	7,353,093	2,623,470	2,790
Crawford.....	29	161	92,649	3,749	409,138	606,430	197,292	714
Davies.....	77	1,497	1,858,044	20,870	2,210,606	4,574,750	2,364,144	3,101
De Kalb.....	60	1,842	1,894,088	725,230	8,550,470	13,490,733	4,946,263	2,984
Dearborn.....	55	1,781	1,464,743	206,766	8,110,488	12,190,137	4,070,640	4,796
Decatur.....	56	242	215,267	17,383	1,130,236	1,562,514	432,378	1,897
Delaware.....	100	7,822	8,457,739	1,332,492	25,129,685	42,407,441	17,277,756	21,058
Dubois.....	80	840	650,492	61,885	2,564,123	3,942,900	1,378,777	3,267
Elkhart.....	206	8,021	8,086,234	698,915	22,744,858	39,567,884	10,823,026	15,662
Fayette.....	48	2,530	2,270,906	401,967	10,308,543	15,836,023	5,528,380	6,466
Floyd.....	110	2,742	2,513,558	390,897	8,280,504	14,795,050	6,505,552	9,317
Fontaine.....	57	423	422,870	88,450	841,472	1,701,511	800,039	2,714
Franklin.....	61	238	193,101	46,764	673,091	1,134,326	481,235	2,626
Fulton.....	67	271	274,789	35,533	1,045,610	2,437,204	791,684	1,105
Gibson.....	66	1,092	1,455,840	37,592	2,404,250	4,267,044	1,862,785	2,616
Grant.....	149	6,437	5,754,877	1,248,652	17,947,252	30,504,254	12,557,002	11,982
Greene.....	56	413	376,020	30,637	2,500,100	3,476,611	916,511	1,404
Hamilton.....	61	840	705,204	69,455	5,990,649	7,392,668	1,393,119	4,462
Hancock.....	39	626	511,622	63,330	940,648	2,030,268	1,080,620	1,693
Harrison.....	47	415	285,474	22,391	1,020,602	1,617,497	587,895	1,759
Hendricks.....	40	86	71,850	9,266	399,677	629,623	229,948	1,076
Henry.....	80	4,471	4,519,640	300,905	10,121,403	17,042,730	6,021,336	8,692
Howard.....	120	7,040	8,606,557	1,463,216	22,143,023	39,052,297	17,809,274	34,310
Huntington.....	92	2,484	3,014,212	300,265	5,271,886	11,896,596	6,124,710	5,166
Jackson.....	69	1,213	944,308	188,082	6,440,209	8,755,031	2,314,822	4,561
Jasper.....	19	92	80,617	3,271	194,453	375,792	181,339	350
Jay.....	63	1,627	1,361,607	174,851	3,148,150	5,774,114	2,625,964	3,257
Jefferson.....	62	688	425,590	71,926	2,210,680	3,397,167	1,177,487	2,844
Jennings.....	33	449	353,700	39,535	1,132,705	2,515,303	1,382,658	1,085
Johnson.....	52	886	703,720	426,103	6,829,164	9,455,067	2,626,863	2,870
Knox.....	148	1,410	1,362,045	258,715	5,263,630	8,863,236	3,599,708	5,879
Kosciusko.....	96	821	590,739	60,144	1,666,744	2,942,082	1,375,938	1,752
La Porte.....	114	7,051	8,812,748	3,135,785	37,848,018	58,348,651	20,500,533	12,890
Lagrange.....	21	137	156,060	15,104	886,478	1,417,223	530,745	1,930
Lake.....	358	41,233	72,967,078	37,406,882	341,333,413	520,361,658	179,028,245	464,639
Lawrence.....	55	2,589	2,533,689	101,114	5,200,656	10,164,940	4,964,284	19,980
Madison.....	103	11,542	12,454,958	1,798,654	35,916,303	60,485,303	24,569,000	31,413
Marion.....	1,028	52,142	55,083,475	12,623,376	260,640,962	405,342,137	135,701,175	114,214
Marshall.....	72	700	780,526	59,826	3,047,537	4,779,385	1,731,848	1,713
Martin.....	30	370	274,707	24,939	595,579	1,128,728	533,149	972
Miami.....	70	2,394	2,148,933	141,882	3,517,847	7,096,074	3,578,227	4,109
Monroe.....	67	1,000	1,633,955	247,291	4,642,900	8,183,888	3,540,988	7,562
Montgomery.....	100	960	895,622	157,266	3,293,852	5,608,197	2,314,345	3,251
Morgan.....	48	709	671,950	42,980	1,595,665	3,021,130	1,425,465	3,348
Newton.....	20	62	53,362	10,102	116,372	316,509	200,137	764
Noble.....	58	897	742,124	101,129	2,815,844	5,931,207	3,115,453	3,443
Ohio.....	8	04	80,510	1,565	120,290	244,497	124,207	464
Orange.....	41	418	267,832	15,835	945,902	1,732,826	786,924	1,575
Owen.....	30	200	116,565	5,874	404,060	794,007	390,847	803
Parke.....	38	350	316,916	23,355	493,870	1,090,594	602,724	2,122
Perry.....	49	1,214	831,739	202,063	2,777,047	4,021,586	2,144,539	3,405
Pike.....	24	70	42,526	8,680	312,490	463,031	150,541	309
Porter.....	50	623	496,413	71,626	1,722,391	2,960,266	1,237,875	1,689
Posey.....	41	440	419,748	82,965	4,630,015	5,726,522	1,096,507	2,259
Pulaski.....	23	44	21,518	4,065	73,284	157,289	84,005	178
Putnam.....	44	415	489,622	22,320	1,672,497	2,813,706	1,141,209	5,340
Randolph.....	74	1,063	819,822	66,244	2,513,789	4,551,654	2,037,865	3,022
Ripley.....	71	747	607,911	55,772	2,007,636	3,700,390	1,692,754	2,682
Rush.....	44	694	569,771	95,137	2,066,419	3,425,627	1,359,208	3,147
St. Joseph.....	277	10,957	23,205,886	3,877,875	53,107,446	103,713,906	50,606,460	40,369
Scott.....	20	275	135,962	6,967	849,089	1,108,790	250,701	1,875
Shelby.....	61	1,609	1,305,940	170,663	4,344,204	7,520,687	3,176,483	5,827
Spencer.....	42	202	186,540	38,473	1,770,224	2,229,494	459,270	1,470
Stark.....	13	25	20,158	1,610	150,977	204,670	53,693	144
Stenben.....	49	187	155,971	19,022	1,358,541	1,932,483	623,942	1,107
Sullivan.....	36	114	100,403	9,335	481,737	758,683	276,940	584
Switzerland.....	12	20	16,403	1,881	215,438	328,513	113,075	201
Tippecanoe.....	99	2,665	2,964,290	512,189	7,231,234	13,115,651	5,884,417	6,501
Tipton.....	42	544	470,620	64,200	976,130	1,959,888	983,758	1,073



## MANUFACTURES—INDIANA.

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
Union.....	34	89	\$77,047	\$10,487	\$707,475	\$1,002,206	\$294,731	572
Vanderburg.....	316	14,475	13,454,504	2,577,666	45,856,011	75,245,082	29,392,071	27,485
Vermilion.....	45	734	660,409	39,541	1,333,448	2,449,693	1,116,245	2,577
Vigo.....	288	9,805	11,076,917	2,032,633	32,572,610	54,698,967	22,126,357	28,763
Wabash.....	83	2,089	2,016,399	348,729	7,467,189	11,408,142	4,000,953	6,609
Warren.....	6	9	6,335	495	13,306	30,098	16,762	14
Warrick.....	35	111	70,319	34,109	678,642	951,751	273,109	764
Washington.....	30	468	423,782	28,289	1,350,219	2,567,366	1,217,147	980
Wayne.....	241	5,913	5,837,660	559,823	14,915,050	27,621,997	12,706,947	9,302
Wells.....	53	985	915,161	139,947	2,029,078	4,265,343	2,236,265	3,000
White.....	38	295	253,320	18,824	1,557,486	2,082,695	525,209	1,010
Whitley.....	33	435	328,789	57,610	1,814,187	2,620,980	812,793	1,143

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	7,016	277,580	100.0	\$1,898,753	100.0	\$723,803	100.0	Carriages and wagons, including repairs.....	79	1,434	0.5	\$9,269	0.5	\$2,872	0.4
Iron and steel, steel works and rolling mills.....	23	22,362	8.1	199,274	10.5	86,079	11.9	Druggists' preparations.....	25	1,409	0.5	9,257	0.5	4,615	0.6
Slaughtering and meat packing.....	57	5,091	2.0	134,029	7.1	12,339	1.7	Pickles, preserves, and sauces.....	30	1,221	0.4	8,927	0.5	3,121	0.4
Automobiles.....	27	10,544	3.8	107,348	5.7	29,650	4.1	Shirts.....	14	1,991	0.7	8,900	0.5	2,543	0.4
Cars, steam-railroad, not including operations of railroad companies.....	9	6,650	2.4	86,021	4.5	19,946	2.8	Chemicals.....	9	1,026	0.4	8,049	0.5	4,679	0.6
Foundry and machine-shop products.....	395	18,828	6.8	85,360	4.5	47,333	6.5	Boxes, paper and other, not elsewhere specified.....	21	1,562	0.6	8,406	0.4	4,001	0.6
Flour-mill and gristmill products.....	450	2,280	0.8	75,111	4.0	9,371	1.3	Phonographs and graphophones.....	13	2,178	0.8	7,977	0.4	3,908	0.5
Automobile bodies and parts.....	145	15,229	5.5	71,717	3.8	31,648	4.4	Stoves and hot-air furnaces.....	25	1,650	0.6	7,762	0.4	4,550	0.6
Cars and general shop construction and repairs by steam-railroad companies.....	77	23,099	8.3	61,232	3.2	30,366	5.0	Marble and stone work.....	166	2,004	0.7	7,612	0.4	5,082	0.7
Furniture.....	177	13,257	4.8	52,360	2.8	24,867	3.4	Musical instruments, pianos.....	8	1,432	0.5	6,978	0.4	3,602	0.5
Electrical machinery, apparatus, and supplies.....	47	11,756	4.2	41,594	2.2	20,784	2.9	Iron and steel, forgings, not made in steel works or rolling mills.....	5	972	0.4	6,359	0.3	3,868	0.5
Agricultural implements.....	29	5,533	2.0	31,824	1.7	19,209	2.7	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	6	1,170	0.4	6,296	0.3	2,864	0.4
Glass.....	35	9,350	3.4	30,107	1.6	16,932	2.3	Gloves and mittens, cloth, not including gloves made in textile mills.....	24	1,520	0.5	5,860	0.3	2,186	0.3
Bread and other bakery products.....	802	3,759	1.4	30,020	1.6	10,344	1.6	Soap.....	10	540	0.2	5,678	0.3	2,608	0.4
Butter.....	92	1,453	0.5	27,901	1.5	3,853	0.5	Brass, bronze, and copper products.....	31	1,271	0.5	5,638	0.3	2,404	0.3
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	15	2,917	1.0	20,884	1.1	8,867	1.2	Confectionery, ice cream.....	151	536	0.2	5,632	0.3	1,690	0.2
Printing and publishing, newspapers and periodicals.....	559	3,511	1.3	19,185	1.0	13,497	1.9	Confectionery.....	84	1,177	0.4	5,563	0.3	2,292	0.3
Canning and preserving, fruits and vegetables.....	136	2,049	1.1	18,899	1.0	7,174	1.0	Stamped and enameled ware, not elsewhere specified.....	7	1,377	0.5	5,248	0.3	3,273	0.5
Lumber and timber products.....	486	4,173	1.5	17,776	0.9	9,361	1.3	Smelting and refining, not from the ore.....	4	257	0.1	4,899	0.3	1,480	0.2
Paper and wood pulp.....	26	2,214	0.8	15,120	0.8	5,006	0.8	Leather, tanned, curried, and finished.....	9	396	0.1	4,730	0.2	1,274	0.2
Clothing, men's.....	37	3,480	1.3	15,000	0.8	5,208	0.7	Fertilizers.....	13	328	0.1	4,713	0.2	1,980	0.3
Engines, steam, gas, and water.....	16	2,853	1.0	14,473	0.8	6,784	0.9	Condensed milk.....	7	205	0.1	4,617	0.2	692	0.1
Structural ironwork, not made in steel works or rolling mills.....	23	2,015	0.7	14,450	0.8	6,600	0.9	Copper, tin, and sheet-iron work.....	172	606	0.3	4,587	0.2	1,885	0.3
Lumber, planing-mill products, not including planing mills connected with sawmills.....	222	2,238	0.8	14,102	0.7	5,258	0.7	Woolen goods.....	11	948	0.3	4,542	0.2	1,222	0.2
Cement.....	5	1,953	0.7	13,363	0.7	7,490	1.0	Patent medicines and compounds.....	83	420	0.2	4,481	0.2	3,098	0.4
Gas, illuminating and heating.....	53	1,902	0.7	12,454	0.7	5,843	0.8	Cotton goods.....	4	907	0.4	4,353	0.2	1,863	0.3
Printing and publishing, book and job.....	278	3,041	1.1	10,741	0.6	6,520	0.9	Machine tools.....	15	1,228	0.4	4,259	0.2	2,885	0.4
Pumps, not including power pumps.....	11	1,195	0.4	10,166	0.5	7,705	1.1	Wirework, not elsewhere specified.....	21	632	0.2	4,209	0.2	1,540	0.2
Tobacco, cigars.....	252	4,154	1.5	10,066	0.5	5,087	0.7	Ice, manufactured.....	107	855	0.3	4,089	0.2	2,676	0.4
Brick and tile, terra-cotta, and fire-clay products.....	151	3,648	1.3	9,881	0.5	6,444	0.9	Liquors, malt.....	13	759	0.3	3,959	0.2	2,234	0.3
Knit goods.....	8	2,675	1.0	9,802	0.5	4,187	0.6	Coffins, burial cases, and undertakers' goods.....	22	806	0.3	3,948	0.2	1,886	0.3
Food preparations, not elsewhere specified.....	40	539	0.2	9,318	0.5	1,755	0.2	Tools, not elsewhere specified.....	26	450	0.2	3,902	0.2	3,184	0.4
								Coffee, roasting and grinding.....	24	187	0.1	3,711	0.2	915	0.1
								Carriages and sleds, children's.....	8	918	0.3	3,650	0.2	1,934	0.3
								Carriage and wagon materials.....	21	782	0.3	3,516	0.2	1,444	0.2
								All other industries <sup>1</sup> .....	1,965	47,003	16.9	427,005	22.5	148,818	20.6

<sup>1</sup> 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: "Bags, other than paper, not including bags made in textile mills"; "boots and shoes, rubber"; "coke, not including gas-house coke"; "glucose and starch"; "iron and steel, blast furnaces"; "petroleum, refining"; "saws"; "sewing-machine cases"; "smelting and refining, lead"; "tin plate and ternalplate"; "tinware, not elsewhere specified"; and "wire."



# MANUFACTURES—INDIANA.

7

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

CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.						Male.	Fe- male.
All classes.....	1919	330,145	276,294	53,851	83.7	16.3	Clerks and other subordinate sal- aried employees.....	1919	32,293	20,747	11,546	64.4	35.6
	1914	233,270	201,481	31,789	86.4	13.6		1914	20,958	15,365	5,593	73.3	26.7
	1909	218,263	190,684	27,579	87.4	12.6		1909	16,759	12,801	3,958	76.4	23.6
Proprietors and officials.....	1919	20,362	19,742	620	97.0	3.0	Wage earners (average number).....	1919	277,580	235,805	41,775	85.0	15.0
	1914	14,809	14,380	429	97.1	2.9		1914	197,503	171,736	25,767	87.0	13.0
	1909	14,520	14,185	335	97.7	2.3		1909	186,984	163,698	23,286	87.5	12.5
Proprietors and firm members.....	1919	6,768	6,506	262	96.1	3.9	16 years of age and over.....	1919	273,918	233,578	40,340	85.3	14.7
	1914	7,220	6,941	279	96.0	4.0		1914	195,905	170,767	25,138	87.2	12.8
	1909	7,674	7,425	249	96.8	3.2		1909	183,372	161,117	22,255	87.9	12.1
Salaried officers of corporations.....	1919	4,015	3,848	167	95.8	4.2	Under 16 years of age.....	1919	3,662	2,227	1,435	60.8	39.2
	1914	3,072	2,935	137	97.2	2.8		1914	1,508	969	539	60.6	39.4
	1909	2,621	2,577	44	98.3	1.7		1909	3,612	2,581	1,031	71.5	28.5
Superintendents and managers.....	1919	9,579	9,388	191	98.0	2.0							
	1914	4,508	4,454	54	98.8	1.2							
	1909	4,225	4,183	42	99.0	1.0							

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

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries.....	1919	277,580	84.1	14.5	1.3	Furniture.....	1919	13,257	86.9	11.0	2.1
	1914	197,503	86.5	12.7	0.8		1914	10,803	96.8	1.9	1.3
	1909	186,984	86.2	11.9	1.9	Glass.....	1919	9,350	82.0	13.2	4.7
Agricultural implements.....	1919	5,533	97.1	2.7	0.2		1914	9,390	90.7	7.0	1.7
	1914	3,091	97.8	2.2	0.1	Iron and steel, steel works and rolling mills..	1919	22,362	99.8	0.2	(?)
Automobile bodies and parts.....	1919	15,229	93.6	6.1	0.3		1914	11,106	100.0	(?)	(?)
	1914	2,817	98.6	1.1	0.2	Knit goods.....	1919	2,675	32.3	60.6	6.8
Automobiles.....	1919	10,544	93.5	6.1	0.4		1914	2,338	29.4	63.3	7.3
	1914	4,402	98.6	1.4	.....	Lumber and timber products.....	1919	4,173	98.7	1.2	0.2
Bread and other bakery products.....	1919	3,759	73.6	24.7	1.7		1914	4,476	99.8	0.1	0.1
	1914	3,188	81.4	17.7	0.9	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919	2,238	95.8	2.9	1.3
Brick and tile, terra-cotta, and fire-clay prod- ucts.....	1919	3,648	96.0	3.7	0.2		1914	2,550	98.8	0.7	0.4
	1914	4,089	96.8	2.8	0.5	Marble and stone work.....	1919	2,004	99.9	0.1	(?)
Canning and preserving, fruits and vege- tables.....	1919	2,949	58.7	39.7	1.6		1914	3,389	99.8	0.1	0.1
	1914	3,198	43.9	54.0	2.1	Paper and wood pulp.....	1919	2,214	95.8	4.1	0.2
Cars and general shop construction and repairs by steam-railroad companies.	1919	23,090	99.5	0.5	.....		1914	1,620	93.4	6.5	0.1
	1914	14,398	99.9	0.1	.....	Printing and publishing, book and job.....	1919	3,041	64.8	29.3	6.0
Cars, steam-railroad, not including opera- tions of railroad companies.	1919	6,650	99.6	0.4	.....		1914	2,529	67.2	28.0	4.2
	1914	5,800	99.9	.....	0.1	Printing and publishing, newspapers and periodicals.	1919	3,511	76.8	22.0	1.3
Clothing, men's.....	1919	3,480	16.3	80.2	3.5		1914	3,395	77.8	20.5	1.7
	1914	2,667	19.1	80.7	0.2	Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	2,917	85.4	14.5	0.1
Electrical machinery, apparatus, and sup- plies.....	1919	11,756	60.2	20.9	0.9		1914	1,499	92.5	7.4	0.1
	1914	4,075	77.5	22.2	0.3	Slaughtering and meat packing.....	1919	5,691	90.5	8.3	1.1
Engines, steam, gas, and water.....	1919	2,853	96.5	3.5	.....		1914	4,481	93.6	6.0	0.4
	1914	1,311	99.6	0.3	0.1	Structural ironwork, not made in steel works or rolling mills.	1919	2,015	99.9	0.1	.....
Flour-mill and gristmill products.....	1919	2,280	98.3	1.7	.....		1914	1,853	99.9	.....	0.1
	1914	2,281	98.4	1.4	0.2	Tobacco, cigars.....	1919	4,154	18.4	81.4	0.1
Foundry and machine-shop products <sup>1</sup> .....	1919	20,184	92.0	6.0	2.0		1914	3,583	37.1	62.7	0.1
	1914	11,800	96.9	3.0	0.1	All other industries.....	1919	86,014	77.2	21.0	1.8
							1914	69,814	81.0	17.9	1.1

<sup>1</sup> Includes "iron and steel, tempering and welding," and "machine tools."

<sup>2</sup> Less than one-tenth of 1 per cent.



## MANUFACTURES—INDIANA.

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
Anderson.....	7,928	3,906	4,393	6,129	3,333	3,710	1,739	541	581	60	32	102	\$38,930,509	\$12,789,369	\$13,764,933
Bloomington.....	1,420	1,057	.....	1,182	946	.....	226	100	.....	12	11	.....	6,816,002	2,329,290	.....
Clinton.....	469	.....	.....	292	.....	.....	177	.....	.....	.....	.....	.....	1,750,704	.....	.....
Crawfordsville.....	785	680	.....	709	572	.....	70	105	.....	6	3	.....	4,837,222	2,548,529	.....
East Chicago.....	8,957	7,482	5,067	8,553	7,331	5,052	387	149	8	17	2	7	89,568,753	41,623,788	23,868,801
Elkhart.....	5,728	2,993	2,942	5,011	2,600	2,548	679	381	344	38	12	50	24,421,494	8,649,200	6,834,750
Elwood.....	2,167	1,961	2,072	1,798	1,619	1,829	358	330	210	11	12	33	15,644,537	8,186,779	8,378,536
Evansville.....	12,526	10,333	8,824	8,762	7,763	6,261	3,643	2,451	2,100	121	119	463	70,230,419	31,426,707	22,289,004
Fort Wayne.....	16,344	11,161	10,298	12,206	8,395	7,494	3,808	2,578	2,353	330	188	451	76,713,262	30,204,634	23,686,809
Frankfort.....	1,275	.....	.....	970	.....	.....	301	.....	.....	4	.....	.....	6,401,263	.....	.....
Hammond.....	6,065	4,281	3,841	5,215	3,453	3,306	724	740	490	126	88	39	59,276,319	20,584,408	15,580,250
Huntington.....	2,165	1,239	1,376	1,710	1,022	1,180	243	198	177	212	19	19	9,977,014	2,790,522	2,227,558
Indianapolis.....	49,977	30,971	31,736	40,559	25,936	26,118	9,057	4,827	5,051	361	208	567	398,666,553	139,700,016	126,313,479
Jeffersonville.....	1,017	1,176	766	908	1,162	753	19	14	12	.....	.....	1	6,732,599	.....	1,915,682
Kokomo.....	6,727	3,289	2,051	6,115	2,952	1,704	593	325	326	19	12	21	38,709,165	10,641,191	5,451,441
La Porte.....	3,502	1,765	1,674	3,042	1,544	1,232	437	210	411	23	11	31	20,580,890	5,929,339	3,971,624
Lafayette.....	2,550	1,810	1,225	2,269	1,171	1,024	232	137	183	49	2	18	12,616,169	5,185,788	4,866,663
Logansport.....	2,338	1,709	2,169	2,123	1,577	1,913	189	127	238	20	5	18	7,740,446	3,671,446	4,201,369
Marion.....	4,646	2,970	2,229	3,593	2,400	1,936	903	545	233	150	25	60	24,325,085	6,705,183	4,282,116
Michigan City.....	3,452	4,442	2,885	2,831	3,926	2,680	430	465	199	191	51	6	37,360,551	15,119,937	8,261,209
Mishawaka.....	5,068	3,332	3,445	3,958	2,746	2,901	1,064	566	458	46	20	86	27,765,010	12,304,174	10,882,846
Muncie.....	6,559	3,687	3,583	5,779	3,224	3,240	715	436	287	65	27	56	33,175,525	10,779,577	8,441,374
New Albany.....	1,239	1,458	1,851	1,050	1,257	1,488	164	186	327	25	15	36	6,766,373	3,235,593	3,323,282
New Castle.....	4,041	1,950	.....	3,594	1,828	.....	419	119	.....	28	3	.....	14,583,738	4,498,192	.....
Peru.....	1,466	787	619	1,120	640	552	319	128	42	27	19	25	4,704,590	1,529,351	1,097,156
Richmond.....	4,938	3,062	3,621	4,015	3,140	3,253	824	504	329	99	18	39	22,893,643	10,251,815	10,373,837
South Bend.....	14,792	12,203	11,789	11,620	10,053	9,893	2,833	2,058	1,510	339	92	386	75,339,165	31,179,978	27,854,527
Terre Haute.....	6,458	5,270	4,347	5,553	4,290	3,694	860	965	621	45	15	32	41,907,818	25,698,719	21,409,859
Vincennes.....	1,191	962	1,233	1,038	903	1,163	149	58	62	4	1	8	7,582,072	5,232,941	4,233,574

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	266,959	196,936	172,475	90.5	65.6	85.6	July.....	278,232	199,301	175,838	94.4	96.7	87.3
February.....	264,261	198,650	177,371	89.6	66.4	88.0	August.....	285,726	201,200	188,311	95.9	97.7	94.5
March.....	267,725	203,312	181,151	88.8	68.7	89.9	September.....	294,892	206,040	198,293	100.0	100.0	98.4
April.....	262,973	205,317	182,641	88.2	69.6	90.6	October.....	288,486	195,480	201,481	97.8	94.9	101.6
May.....	267,312	203,442	182,228	90.6	68.7	90.4	November.....	293,484	180,266	199,937	99.5	87.5	99.2
June.....	272,593	203,167	183,167	92.4	68.6	90.9	December.....	294,317	176,939	200,915	99.8	85.9	99.7

<sup>1</sup> 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.
		Janu-ary.	Febru-ary.	March.	April.	May.	June.	July.	August.	Septem-ber.	Octo-ber.	Novem-ber.	Decem-ber.	
All industries.....	277,580	266,959	264,261	261,725	262,973	267,312	272,593	278,232	285,726	294,892	288,486	293,484	294,317	88.8
Males.....	235,805	226,778	224,609	223,262	224,779	228,611	233,178	238,233	241,949	247,880	241,570	248,506	250,196	89.2
Females.....	41,775	40,181	39,652	38,463	38,194	38,701	39,315	39,999	43,777	47,012	46,907	44,978	44,121	81.2
Agricultural implements.....	5,533	5,650	5,697	5,379	5,054	5,214	5,244	5,426	5,519	5,416	5,770	5,909	6,118	82.6
Automobile bodies and parts.....	15,229	12,949	12,865	13,784	14,488	15,213	15,908	16,343	16,306	16,294	15,458	16,587	16,553	77.6
Automobiles.....	10,544	8,915	8,769	9,283	9,803	10,102	10,201	10,647	11,002	11,598	12,652	13,247	13,247	66.2
Bread and other bakery products.....	3,759	3,504	3,514	3,522	3,595	3,668	3,796	3,863	3,901	3,870	3,925	3,961	3,989	87.8
Brick and tile, terra-cotta, and fire-clay products.....	3,648	2,448	2,621	2,766	3,367	3,381	4,189	4,192	4,289	4,495	4,404	3,774	3,300	54.5
Canning and preserving, fruits and vegetables.....	2,949	1,373	914	801	859	1,046	2,355	2,257	6,063	9,239	6,573	2,577	1,551	8.7
Cars and general shop construction and repairs by steam-railroad companies.....	23,099	22,397	22,251	21,008	21,821	22,231	22,368	22,981	23,329	24,029	24,436	24,596	24,841	87.8
Cars, steam-railroad, not including operations of railroad companies.....	6,650	6,701	7,503	7,191	7,343	7,842	7,757	7,583	5,519	5,476	5,510	5,494	5,881	69.8
Clothing, men's.....	3,480	3,269	3,263	3,263	3,263	3,371	3,409	3,473	3,608	3,610	3,699	3,690	3,759	85.4
Electrical machinery, apparatus, and supplies.....	11,750	9,859	10,177	10,251	10,475	10,943	11,265	12,156	12,771	13,324	13,017	13,521	13,313	72.9
Engines, steam, gas, and water.....	2,853	3,868	3,000	2,997	2,767	2,648	2,711	2,530	2,704	2,890	2,937	2,826	2,979	77.4
Flour-mill and gristmill products.....	2,280	2,263	2,183	2,087	2,170	2,185	2,084	2,227	2,336	2,473	2,463	2,432	2,457	84.3
Foundry and machine-shop products.....	18,828	18,557	17,997	16,612	17,838	18,084	18,010	18,550	19,311	19,083	19,867	20,651	21,126	78.0
Furniture.....	13,257	11,872	12,015	12,311	12,678	13,096	13,256	13,368	13,823	13,803	14,066	14,325	14,471	82.0
Glass.....	9,350	9,008	10,020	9,803	9,454	9,366	9,188	7,884	7,860	9,002	10,004	10,492	9,219	74.9
Iron and steel, steel works and rolling mills.....	22,362	26,083	24,363	23,943	21,464	21,195	21,891	23,284	22,022	22,020	16,689	21,987	2,403	64.0
Knit goods.....	2,675	2,684	2,699	2,641	2,651	2,647	2,629	2,627	2,663	2,681	2,695	2,730	2,753	95.4
Lumber and timber products.....	4,173	3,641	3,656	3,858	3,968	3,958	3,920	3,921	4,096	4,453	4,788	4,922	4,905	70.9



## MANUFACTURES—INDIANA.

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 of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Lumber, planing-mill products, not including planing mills connected with sawmills.	2,238	1,777	1,880	1,958	2,064	2,158	2,288	2,368	2,397	2,477	2,487	2,522	2,490	70.5
Marble and stone work.	2,004	1,090	1,042	1,210	1,607	1,837	2,117	2,410	2,651	2,707	2,526	2,380	2,457	38.5
Paper and wood pulp.	2,214	2,247	2,100	2,031	2,028	2,010	2,232	2,305	2,304	2,373	2,395	2,310	2,287	83.8
Printing and publishing, book and job.	3,041	3,778	2,911	2,916	2,977	2,957	3,058	3,100	3,145	3,118	3,176	3,176	3,171	87.4
Printing and publishing, newspapers and periodicals.	3,511	3,396	3,412	3,420	3,450	3,523	3,524	3,521	3,593	3,590	3,599	3,583	3,596	94.4
Rubber tires, tubes, and rubber goods, not elsewhere specified.	2,917	2,626	3,018	3,120	3,064	2,963	2,715	2,708	2,845	2,922	3,006	3,137	2,871	83.7
Slaughtering and meat packing.	5,691	6,664	6,072	5,738	5,359	5,634	5,904	5,509	6,291	5,390	5,500	5,480	5,916	79.4
Structural ironwork, not made in steel works or rolling mills.	2,015	2,736	2,610	2,330	1,999	1,959	1,886	1,871	1,905	1,890	1,833	1,672	1,885	48.9
Tobacco, cigars.	4,154	3,970	4,042	3,976	3,787	3,935	3,886	3,881	3,991	4,233	4,477	4,767	4,903	77.2
All other industries.	87,370	84,214	83,375	82,562	83,611	83,596	85,042	87,377	90,807	93,080	92,083	91,507	90,780	88.7
<i>Industries showing large proportion of females.</i>														
Bread and other bakery products.	940	856	800	858	897	908	940	965	994	972	994	1,009	1,027	83.3
Canning and preserving, fruits and vegetables.	1,197	354	172	185	161	217	659	605	2,808	4,820	3,397	759	417	3.3
Clothing, men's.	2,901	2,777	2,849	2,731	2,711	2,790	2,836	2,897	3,000	2,988	3,060	3,058	3,115	87.0
Electrical machinery, apparatus, and supplies.	3,568	3,283	3,336	3,381	3,321	3,431	3,424	3,519	3,803	3,914	3,821	3,992	3,791	82.2
Furniture.	1,503	1,449	1,381	1,405	1,405	1,521	1,551	1,532	1,534	1,545	1,594	1,621	1,498	85.2
Glass.	1,301	1,383	1,388	1,387	1,301	1,287	1,281	1,401	1,068	1,445	1,591	1,621	1,498	75.3
Knit goods.	1,723	1,685	1,747	1,718	1,705	1,701	1,682	1,679	1,703	1,727	1,732	1,783	1,794	92.6
Printing and publishing, book and job.	975	893	942	938	955	950	977	1,015	1,019	980	1,011	1,014	1,006	87.6
Printing and publishing, newspapers and periodicals.	773	730	730	750	748	779	773	787	789	792	802	798	792	91.0
Rubber tires, tubes, and rubber goods, not elsewhere specified.	429	459	511	455	430	421	381	369	389	409	423	438	427	72.2
Tobacco, cigars.	3,383	3,259	3,270	3,298	3,110	3,234	3,154	3,137	3,207	3,417	3,661	3,910	4,029	77.2
Total for cities <sup>1</sup> .	185,700	177,442	176,861	174,665	176,760	180,350	182,441	186,124	189,365	192,785	194,611	198,778	199,355	87.6
Males.	153,138	145,296	145,189	144,081	146,184	149,305	151,611	154,435	156,198	158,413	159,494	163,373	164,177	87.8
Females.	32,652	32,146	31,672	30,584	30,576	31,045	30,930	31,689	33,167	34,372	35,117	35,405	35,178	86.4
ANDERSON.	7,028	6,901	6,861	6,796	7,115	7,446	7,884	8,521	9,181	9,208	8,642	8,530	8,141	72.8
Males.	6,185	5,320	5,303	5,213	5,545	5,710	6,176	6,765	7,105	7,195	6,819	6,724	6,400	72.5
Females.	1,743	1,581	1,558	1,483	1,570	1,736	1,708	1,816	2,076	2,013	1,823	1,806	1,741	71.9
BLOOMINGTON.	1,420	1,269	1,210	1,250	1,292	1,313	1,356	1,410	1,500	1,583	1,579	1,607	1,632	72.7
Males.	1,180	964	963	1,014	1,055	1,073	1,133	1,186	1,331	1,355	1,353	1,374	1,431	67.3
Females.	239	245	247	236	237	240	223	223	229	228	226	233	231	90.3
CLINTON.	469	448	449	448	468	467	487	486	503	493	486	477	446	83.3
Males.	292	274	273	276	289	290	300	305	324	315	308	300	271	75.0
Females.	177	174	176	172	179	177	178	181	179	178	178	177	175	95.0
CRAWFORDSVILLE.	785	765	763	721	696	705	775	793	786	942	891	807	836	73.9
Males.	714	648	638	650	654	664	733	753	745	798	800	749	749	78.5
Females.	71	117	75	71	42	41	42	40	41	144	91	61	87	27.8
EAST CHICAGO.	8,957	9,005	9,207	9,034	8,684	8,520	8,346	8,717	8,708	8,673	8,514	9,559	9,558	83.7
Males.	8,570	9,430	8,761	8,618	8,293	8,173	8,014	8,362	8,345	8,290	8,147	9,207	9,201	85.0
Females.	387	575	446	416	391	347	331	355	363	383	367	352	354	61.9
ELKHART.	5,728	5,740	5,722	5,727	5,694	5,737	5,725	5,752	5,705	5,672	5,737	5,657	5,868	96.4
Males.	5,031	5,108	5,076	5,074	5,025	5,026	5,010	5,019	4,960	4,938	5,005	4,966	5,165	95.6
Females.	697	632	646	653	669	711	715	733	745	734	732	691	703	84.8
ELWOOD.	2,167	2,304	2,479	2,232	2,037	1,789	1,843	2,138	2,576	2,508	2,111	2,133	1,858	69.4
Males.	1,809	2,005	2,171	1,928	1,743	1,483	1,678	1,858	2,074	1,922	1,540	1,843	1,563	68.3
Females.	358	299	308	304	294	306	265	280	501	586	571	290	295	47.8
EVANSVILLE.	12,523	11,976	12,236	11,902	11,916	12,122	12,124	12,337	12,702	13,251	13,196	13,305	13,186	89.6
Males.	8,824	8,270	8,515	8,331	8,410	8,622	8,647	8,828	9,174	9,402	9,295	9,291	9,124	88.0
Females.	3,702	3,706	3,721	3,631	3,496	3,497	3,496	3,509	3,528	3,849	3,901	4,014	4,062	85.6
FORT WAYNE.	16,344	15,763	15,412	15,382	15,519	15,728	15,197	15,952	16,419	17,091	17,695	17,992	18,008	81.5
Males.	12,354	11,369	11,532	11,512	11,740	11,958	11,469	12,116	12,614	13,007	13,428	13,512	14,060	80.7
Females.	3,990	3,803	3,880	3,870	3,779	3,770	3,728	3,836	3,805	4,084	4,267	4,480	4,528	82.3
FRANKFORT.	1,275	1,128	1,146	1,162	1,155	1,174	1,194	1,277	1,346	1,262	1,397	1,477	1,582	71.3
Males.	974	866	873	903	890	912	931	1,023	1,070	976	1,052	1,076	1,130	75.4
Females.	301	262	273	259	265	262	263	254	276	286	345	401	452	50.2
HAMMOND.	6,065	6,760	6,577	6,484	6,573	6,361	6,356	6,423	4,479	4,669	5,108	6,413	6,527	66.4
Males.	5,268	5,958	5,820	5,748	5,802	5,623	5,601	5,593	3,655	3,873	4,303	5,535	5,713	61.3
Females.	797	792	757	736	771	738	755	830	804	796	795	878	814	84.1
HUNTINGTON.	2,165	2,384	2,314	2,323	2,183	2,036	1,888	2,000	2,045	2,106	2,227	2,213	2,261	79.2
Males.	1,906	2,070	2,030	2,050	1,932	1,833	1,745	1,761	1,800	1,852	1,993	1,890	1,957	84.3
Females.	259	314	278	273	251	203	143	239	245	254	234	314	304	45.5
INDIANAPOLIS.	49,977	47,569	46,408	45,280	46,850	47,084	48,882	49,432	51,135	52,544	53,618	54,094	55,319	81.9
Males.	40,763	38,334	37,381	36,854	38,273	38,961	40,144	40,598	41,895	43,065	43,613	44,740	45,318	81.3
Females.	9,214	9,235	9,027	8,426	8,577	8,123	8,738	8,834	9,240	9,479	10,005	10,254	10,001	82.5
JEFFERSONVILLE.	1,017	972	973	960	1,125	1,284	1,287	1,490	1,258	894	597	668	687	40.1
Males.	908	946	951	948	1,107	1,200	1,204	1,458	1,297	882	586	657	675	40.2
Females.	19	26	22	21	18	18	18	32	61	12	11	11	12	34.4
KOKOMO.	6,727	6,039	6,084	6,350	6,544	6,657	6,583	6,606	6,868	7,152	7,351	7,490	6,994	80.6
Males.	6,127	5,485	5,540	5,811	5,960	6,009	6,036	6,079	6,281	6,481	6,666	6,813	6,303	80.5
Females.	600	554	544	539	584	648	547	527	587	671	685	677	691	70.3
LAFAYETTE.	2,550	2,551	2,498	2,337	2,378	2,390	2,454	2,565	2,633	2,693	2,773	2,760	2,858	82.3
Males.	2,283	2,077	2,153	2,090	2,132	2,137	2,206	2,311	2,373	2,440	2,483	2,446	2,548	81.5
Females.	267	274	245	247	246	253	248	254	260	253	290	314	310	78.3
LA PORTE.	3,502	3,260	3,440	3,502	3,471	3,492	3,512	3,544	3,592	3,452	3,491	3,620	3,682	88.3
Males.	3,060	2,802	2,992	3,050	3,049	3,059	3,070	3,090	3,115	3,028	3,046	3,186	3,233	86.7
Females.	442	448	448	452	422	433	442	454	447	424	445	440	449	93.0



## MANUFACTURES—INDIANA.

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

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.	
LOGANSPORT.....	2,338	2,089	2,077	1,957	1,970	2,086	2,221	2,348	2,441	2,519	2,706	2,709	2,933	66.7
Males.....	2,132	1,915	1,908	1,787	1,807	1,920	2,044	2,172	2,264	2,296	2,440	2,427	2,604	68.6
Females.....	206	174	169	170	163	166	177	176	177	223	266	282	329	49.5
MARION.....	4,646	4,417	4,572	4,617	4,605	4,512	4,497	4,109	4,396	4,768	4,986	5,154	5,119	79.7
Males.....	3,666	3,458	3,582	3,652	3,651	3,580	3,580	3,240	3,592	3,711	3,959	4,115	4,072	78.7
Females.....	980	959	990	965	954	932	917	869	1,004	1,057	1,027	1,039	1,047	82.2
MICHIGAN CITY.....	3,452	2,886	3,731	3,263	3,429	3,929	3,761	3,486	3,588	3,800	3,927	2,755	2,899	70.1
Males.....	2,889	2,241	3,111	2,731	2,879	3,360	3,231	2,938	3,058	3,279	3,362	2,179	2,299	64.8
Females.....	563	645	620	532	550	569	530	548	530	521	565	576	570	80.8
MISHAWAKA.....	5,068	4,865	4,959	5,066	5,100	5,093	5,039	4,908	5,056	4,967	5,142	5,239	5,382	90.
Males.....	3,978	3,827	3,865	3,959	3,965	3,969	3,922	3,819	3,991	3,923	4,054	4,156	4,288	89.1
Females.....	1,090	1,038	1,094	1,107	1,135	1,124	1,117	1,089	1,065	1,044	1,088	1,083	1,096	91.5
MUNCIE.....	6,559	6,573	6,511	6,435	6,543	6,716	6,746	6,804	6,860	7,169	6,299	6,378	5,574	80.8
Males.....	5,820	5,767	5,768	5,722	5,873	6,062	6,073	6,221	6,221	6,307	5,496	5,618	4,906	77.9
Females.....	739	806	743	713	670	654	673	583	639	862	803	760	668	75.9
NEW ALBANY.....	1,239	997	1,080	1,094	1,115	1,185	1,249	1,300	1,309	1,345	1,368	1,400	1,426	69.9
Males.....	1,065	894	932	930	944	1,000	1,069	1,120	1,142	1,165	1,180	1,204	1,224	70.6
Females.....	174	153	148	164	171	185	180	180	167	180	188	196	202	65.8
NEW CASTLE.....	4,041	3,284	3,076	3,421	3,445	3,755	4,102	4,438	4,549	4,449	4,704	4,712	4,557	65.3
Males.....	3,519	2,851	2,723	3,098	3,095	3,346	3,691	3,985	4,081	3,967	4,239	4,255	4,095	64.0
Females.....	422	433	353	323	349	409	411	452	468	482	465	457	462	67.0
PERU.....	1,466	1,344	1,305	1,313	1,425	1,491	1,683	1,559	1,513	1,590	1,442	1,445	1,480	77.5
Males.....	1,132	1,021	979	989	1,101	1,162	1,340	1,222	1,175	1,213	1,110	1,118	1,154	73.1
Females.....	334	323	326	324	324	329	343	337	338	377	332	327	326	85.9
RICHMOND.....	4,938	4,572	4,523	4,588	4,720	4,821	5,021	5,146	5,248	4,972	5,164	5,163	5,318	85.1
Males.....	4,076	3,770	3,716	3,817	3,887	3,990	4,167	4,250	4,346	4,080	4,254	4,235	4,384	84.8
Females.....	862	802	807	771	831	831	854	896	902	892	910	928	934	82.5
SOUTH BEND.....	14,792	14,096	14,322	14,191	13,884	14,384	14,349	14,678	14,864	14,882	15,118	16,110	16,526	84.6
Males.....	11,797	11,203	11,473	11,359	11,190	11,530	11,476	11,620	11,789	11,751	11,937	12,948	13,309	84.1
Females.....	2,995	2,893	2,850	2,832	2,794	2,854	2,873	3,058	3,075	3,131	3,181	3,162	3,217	80.9
TERRE HAUTE.....	6,458	6,349	6,007	6,078	5,931	6,201	6,648	6,827	6,839	6,838	6,692	6,395	6,691	86.9
Males.....	5,581	5,492	5,213	5,305	5,163	5,464	5,833	5,974	5,895	5,849	5,640	5,412	5,721	86.4
Females.....	877	857	794	772	768	737	815	853	943	989	1,043	983	970	70.7
VINCENNES.....	1,191	1,054	1,042	768	794	1,275	1,233	960	1,237	1,293	1,620	1,610	1,407	46.8
Males.....	1,039	984	976	683	710	1,057	1,061	799	1,031	1,057	1,436	1,421	1,253	49.4
Females.....	152	70	66	75	84	218	172	170	206	236	184	189	154	28.0

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. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	277,580	14,998	7,779	67,788	49,638	23,546	69,166	28,961	15,704
	1914	197,503	( <sup>2</sup> )	( <sup>2</sup> )	29,358	23,549	29,299	50,232	55,021	10,044
	1909	186,984	( <sup>2</sup> )	( <sup>2</sup> )	13,609	10,974	23,552	48,040	76,343	14,466
Agricultural implements.....	1919	5,533	( <sup>2</sup> )	( <sup>2</sup> )	163	2,990	162	2,046	172	.....
	1914	3,991	( <sup>2</sup> )	( <sup>2</sup> )	2,898	407	332	.....	354	.....
Automobile bodies and parts.....	1919	15,229	4	( <sup>2</sup> )	4,017	2,399	136	8,604	69	.....
	1914	2,817	( <sup>2</sup> )	( <sup>2</sup> )	53	69	46	1,765	884	.....
Automobiles.....	1919	10,544	20	481	3,592	2,968	1,591	1,741	151	.....
	1914	4,402	( <sup>2</sup> )	( <sup>2</sup> )	259	1,105	1,674	1,674	1,215	.....
Bread and other bakery products.....	1919	3,759	53	234	675	514	913	498	749	123
	1914	3,188	( <sup>2</sup> )	( <sup>2</sup> )	294	37	990	115	1,507	185
Brick and tile, terra-cotta, and fire-clay products.....	1919	3,648	58	.....	586	570	1,518	161	755	.....
	1914	4,689	( <sup>2</sup> )	( <sup>2</sup> )	159	284	494	470	3,172	110
Canning and preserving, fruits and vegetables.....	1919	2,949	80	11	321	793	422	260	998	64
	1914	3,198	( <sup>2</sup> )	( <sup>2</sup> )	262	188	302	924	1,202	320
Cars and general shop construction and repairs by steam-railroad companies.....	1919	23,099	.....	155	19,470	242	156	3,076	.....	475
	1914	14,398	( <sup>2</sup> )	( <sup>2</sup> )	6,806	2,388	3,903	815	11	.....
Cars, steam-railroad, not including operations of railroad companies.....	1919	6,650	417	311	2,427	1,088	.....	2,407	.....	.....
	1914	5,800	( <sup>2</sup> )	( <sup>2</sup> )	.....	1,591	95	818	3,296	.....
Clothing, men's.....	1919	3,480	2,257	.....	343	743	57	.....	.....	80
	1914	2,667	( <sup>2</sup> )	( <sup>2</sup> )	909	346	1,228	8	176	.....
Electrical machinery, apparatus, and supplies.....	1919	11,758	133	870	7,666	1,888	172	995	32	.....
	1914	4,075	( <sup>2</sup> )	( <sup>2</sup> )	1,025	117	6	2,854	73	.....
Engines, steam, gas, and water.....	1919	2,853	1,170	.....	.....	308	8	1,335	32	.....
	1914	1,311	( <sup>2</sup> )	( <sup>2</sup> )	69	207	210	608	217	.....
Flour-mill and gristmill products.....	1919	2,280	23	2	624	10	157	100	1,066	293
	1914	2,281	( <sup>2</sup> )	( <sup>2</sup> )	80	15	52	36	1,440	658

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.



## MANUFACTURES—INDIANA.

11

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. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Foundry and machine-shop products <sup>3</sup> .....	1919	20,184	1,120	205	1,752	7,660	2,347	6,048	962	.....
	1914	11,800	( <sup>2</sup> )	( <sup>2</sup> )	527	1,200	3,237	4,019	2,870	7
Furniture.....	1919	13,257	5	246	399	1,882	3,141	6,292	1,292	.....
	1914	10,803	( <sup>2</sup> )	( <sup>2</sup> )	778	961	1,936	2,872	4,256	.....
Glass.....	1919	9,350	1,725	386	2,985	1,804	629	.....	1,821	.....
	1914	9,390	( <sup>2</sup> )	( <sup>2</sup> )	590	3,361	2,290	1,241	1,908	.....
Iron and steel, steel works and rolling mills.....	1919	22,362	4,655	.....	4,685	641	161	1,234	3,141	8,445
	1914	11,106	( <sup>2</sup> )	( <sup>2</sup> )	2,900	151	1,962	1,584	4,509	.....
Knit goods.....	1919	2,675	.....	.....	.....	2,179	495	1	.....	.....
	1914	2,338	( <sup>2</sup> )	( <sup>2</sup> )	.....	10	.....	2,328	.....	.....
Lumber and timber products.....	1919	4,173	105	19	63	132	300	1,077	2,416	.....
	1914	4,476	( <sup>2</sup> )	( <sup>2</sup> )	141	215	680	510	2,930	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	2,238	68	27	119	419	274	922	409	.....
	1914	2,550	( <sup>2</sup> )	( <sup>2</sup> )	217	303	507	613	820	.....
Marble and stone work.....	1919	2,004	443	.....	82	594	291	313	281	.....
	1914	3,389	( <sup>2</sup> )	( <sup>2</sup> )	206	151	486	975	1,561	10
Paper and wood pulp.....	1919	2,214	.....	58	615	.....	153	94	387	907
	1914	1,620	( <sup>2</sup> )	( <sup>2</sup> )	128	.....	.....	.....	658	834
Printing and publishing, book and job.....	1919	3,041	122	69	1,786	888	94	77	5	.....
	1914	2,529	( <sup>2</sup> )	( <sup>2</sup> )	1,570	629	249	34	47	.....
Printing and publishing, newspapers and periodicals.....	1919	3,511	78	81	2,217	179	486	368	101	1
	1914	3,395	( <sup>2</sup> )	( <sup>2</sup> )	1,752	214	744	490	186	.....
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1919	2,917	25	.....	57	85	.....	2,603	87	.....
	1914	1,499	( <sup>2</sup> )	( <sup>2</sup> )	.....	597	39	448	415	.....
Slaughtering and meat packing.....	1919	5,601	5	671	4,062	44	311	133	382	83
	1914	4,481	( <sup>2</sup> )	( <sup>2</sup> )	37	14	137	373	3,877	43
Structural ironwork, not made in steel works or rolling mills.....	1919	2,015	4	.....	58	165	1,422	218	148	.....
	1914	1,853	( <sup>2</sup> )	( <sup>2</sup> )	44	164	213	1,094	338	.....
Tobacco, cigars.....	1919	4,154	466	266	966	765	39	1,571	81	.....
	1914	3,583	( <sup>2</sup> )	( <sup>2</sup> )	1,377	1,689	139	261	116	1
All other industries.....	1919	80,014	2,561	3,507	8,058	17,688	8,051	20,632	13,424	5,708
	1914	69,814	( <sup>2</sup> )	( <sup>2</sup> )	6,277	7,136	8,783	23,294	10,923	7,401
Total for cities <sup>4</sup> .....	1919	185,790	8,080	6,843	49,448	42,436	14,330	45,510	14,069	4,474
	1914	126,036	( <sup>2</sup> )	( <sup>2</sup> )	22,401	17,698	16,352	38,380	27,419	3,696
ANDERSON.....	1919	7,928	7	13	3,760	1,231	109	2,453	253	42
	1914	3,906	( <sup>2</sup> )	( <sup>2</sup> )	1,236	105	156	1,577	779	53
BLOOMINGTON.....	1919	1,420	12	81	44	1,044	23	125	81	10
	1914	1,057	( <sup>2</sup> )	( <sup>2</sup> )	4	41	103	214	691	4
CLINTON.....	1919	409	178	.....	192	10	61	.....	4	24
CRAWFORDSVILLE.....	1919	785	3	0	104	97	97	6	414	58
	1914	680	( <sup>2</sup> )	( <sup>2</sup> )	42	.....	120	5	475	38
EAST CHICAGO.....	1919	8,957	702	176	870	2,411	0	526	2,055	2,118
	1914	7,482	( <sup>2</sup> )	( <sup>2</sup> )	2,614	307	593	1,047	1,683	1,238
ELKHART.....	1919	5,728	176	.....	2,356	998	838	1,194	92	74
	1914	2,993	( <sup>2</sup> )	( <sup>2</sup> )	889	473	272	739	527	93
ELWOOD.....	1919	2,167	880	3	365	351	40	398	124	6
	1914	1,961	( <sup>2</sup> )	( <sup>2</sup> )	144	5	1,026	382	400	4
EVANSVILLE.....	1919	12,520	358	282	2,604	1,816	2,921	3,893	501	151
	1914	10,333	( <sup>2</sup> )	( <sup>2</sup> )	1,370	2,196	2,076	2,425	2,140	121
FORT WAYNE.....	1919	16,344	859	1,260	7,377	4,285	882	1,094	347	240
	1914	11,161	( <sup>2</sup> )	( <sup>2</sup> )	3,086	513	1,598	5,285	614	65
FRANKFORT.....	1919	1,275	.....	.....	457	230	1	441	105	41
HAMMOND.....	1919	6,065	630	15	545	1,043	583	3,022	124	97
	1914	4,281	( <sup>2</sup> )	( <sup>2</sup> )	237	1,992	454	644	861	93
HUNTINGTON.....	1919	2,165	.....	.....	948	383	409	209	79	17
	1914	1,239	( <sup>2</sup> )	( <sup>2</sup> )	90	10	447	317	334	41
INDIANAPOLIS.....	1919	49,977	3,702	2,033	12,959	14,720	2,328	12,209	1,513	513
	1914	30,971	( <sup>2</sup> )	( <sup>2</sup> )	5,930	6,152	3,612	8,709	5,585	983
JEFFERSONVILLE.....	1919	1,017	.....	.....	49	91	10	813	17	37
	1914	1,170	( <sup>2</sup> )	( <sup>2</sup> )	10	36	200	824	102	4
KOKOMO.....	1919	6,727	5	1,081	1,580	653	1,505	647	1,244	12
	1914	3,289	( <sup>2</sup> )	( <sup>2</sup> )	199	325	388	416	1,030	22
LA PORTE.....	1919	3,502	36	.....	45	648	172	2,525	70	.....
	1914	1,765	( <sup>2</sup> )	( <sup>2</sup> )	564	248	171	425	355	2
LAFAYETTE.....	1919	2,550	20	257	1,159	487	155	232	159	72
	1914	1,310	( <sup>2</sup> )	( <sup>2</sup> )	395	29	110	424	299	47
LOGANSPORT.....	1919	2,338	11	84	1,779	167	67	79	131	20
	1914	1,709	( <sup>2</sup> )	( <sup>2</sup> )	987	205	134	36	267	30

<sup>1</sup> Includes 48 and under for 1914.<sup>2</sup> Corresponding figures not available.<sup>3</sup> Includes "iron and steel, tempering and welding" and "machine tools."<sup>4</sup> Excludes Gary and Whiting, to avoid disclosure of individual operations.



## MANUFACTURES—INDIANA.

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.
MARION.....	1919	4,646	123	.....	944	984	488	1,352	642	113
	1914	2,970	(2)	(2)	77	497	126	1,455	736	79
MICHIGAN CITY.....	1919	3,452	2	2	2,100	650	68	517	14	39
	1914	4,442	(2)	(2)	148	.....	806	225	3,188	75
MISHAWAKA.....	1919	5,068	3	.....	37	1,541	80	517	2,890	.....
	1914	3,332	(2)	(2)	52	90	755	2,084	345	6
MUNCIE.....	1919	6,559	.....	131	764	1,005	205	2,310	2,028	116
	1914	3,087	(2)	(2)	146	220	269	353	2,632	67
NEW ALBANY.....	1919	1,239	9	3	60	91	193	744	84	55
	1914	1,458	(2)	(2)	471	2	260	406	285	34
NEW CASTLE.....	1919	4,041	8	.....	46	75	23	3,783	95	11
	1914	1,950	(2)	(2)	33	49	15	1,676	169	8
PERU.....	1919	1,466	.....	7	60	574	210	532	19	64
	1914	787	(2)	(2)	122	110	49	438	44	24
RICHMOND.....	1919	4,938	29	254	785	1,402	1,075	1,094	283	16
	1914	3,662	(2)	(2)	899	684	140	638	1,279	22
SOUTH BEND.....	1919	14,792	764	1,094	4,113	3,892	615	4,030	102	182
	1914	12,203	(2)	(2)	2,357	2,075	599	6,602	471	99
TERRE HAUTE.....	1919	6,458	[44]	3	3,107	1,338	770	547	344	305
	1914	5,270	(2)	(2)	325	1,290	1,716	803	758	318
VINCENNES.....	1919	1,191	14	58	179	219	273	158	249	41
	1914	962	(2)	(2)	58	44	102	171	461	126

<sup>1</sup> Includes 48 and under for 1914.<sup>2</sup> 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.	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.....	7,916	277,580	858	4,115	8,745	1,381	15,438	653	21,353	378	27,240	331	51,531	110	38,386	51	36,666	39	78,221
Agricultural implements.....	29	5,533	1	7	17	6	71	5	144	3	200	3	496	2	719	2	3,889	2	3,889
Automobile bodies and parts.....	145	15,229	10	53	100	29	367	16	547	10	730	15	2,488	7	2,335	3	2,182	2	6,480
Automobiles.....	27	10,544	2	4	3	48	2	81	3	203	3	529	10	3,899	2	1,245	2	4,535	
Bread and other bakery products.....	802	3,769	103	580	1,147	98	985	11	285	5	352	4	680	1	310	.....	.....	.....	.....
Brick and tile, terra-cotta, and fire-clay products.....	151	3,648	1	68	188	33	380	27	959	14	910	7	945	1	266	.....	.....	.....	.....
Canning and preserving, fruits and vegetables.....	136	2,949	1	31	112	71	887	24	708	6	443	2	342	1	457	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	77	23,099	.....	2	5	8	118	12	412	13	925	19	2,878	8	2,711	8	5,667	7	10,383
Cars, steam-railroad, not including operations of railroad companies.....	9	6,650	.....	3	12	10	128	6	45	1	97	.....	.....	3	1,102	2	1,713	2	3,693
Clothing, men's.....	37	3,480	.....	10	26	13	163	5	204	9	471	6	927	2	721	1	917	3	7,961
Electrical machinery, apparatus, and supplies.....	47	11,756	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engines, steam, gas, and water.....	16	2,853	.....	2	6	5	75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flour-mill and gristmill products.....	450	2,280	57	329	681	43	403	13	368	4	301	2	376	1	321	1	604	1	1,170
Foundry and machine-shop products.....	395	18,828	32	181	295	95	1,118	58	1,974	34	2,578	29	4,506	9	2,845	5	3,254	2	2,258
Furniture.....	177	13,257	4	24	70	17	224	41	1,462	58	4,207	26	3,951	5	1,811	2	1,532	.....	.....
Glass.....	35	9,350	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Iron and steel, steel works and rolling mills.....	23	22,362	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Knit goods.....	8	2,675	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lumber and timber products.....	486	4,173	6	309	588	119	1,358	41	1,275	8	519	3	433	.....	.....	.....	.....	.....	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.....	222	2,238	12	131	296	53	605	19	540	3	184	4	613	.....	.....	.....	.....	.....	.....
Marble and stone work.....	166	2,004	29	92	186	24	247	14	459	2	120	4	730	1	282	.....	.....	.....	.....
Paper and wood pulp.....	26	2,214	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Printing and publishing, book and job.....	278	3,041	60	135	327	57	675	10	516	7	523	2	1,377	.....	.....	.....	.....	.....	.....
Printing and publishing, newspapers and periodicals.....	559	3,511	117	312	716	88	863	34	1,155	6	372	2	405	.....	.....	.....	.....	.....	.....
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	15	2,917	.....	1	2	1	17	2	66	7	534	1	176	2	871	.....	.....	.....	.....
Slaughtering and meat packing.....	57	5,091	1	21	65	16	179	8	267	3	225	6	946	.....	.....	.....	.....	.....	.....
Structural ironwork, not made in steel works or rolling mills.....	23	2,015	.....	6	14	5	47	4	122	5	362	2	285	.....	.....	.....	.....	.....	.....
Tobacco, cigars.....	252	4,154	86	109	235	37	386	9	323	3	192	5	804	.....	.....	.....	.....	.....	.....
All other industries.....	3,268	87,370	338	1,756	3,652	545	6,025	274	8,824	152	11,010	144	21,616	39	13,603	13	9,716	7	14,924



# MANUFACTURES—INDIANA.

13

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 (aver- age number).	No wage earn- ers.	1 to 5 wage earn- ers, inclusive.	6 to 20 wage earn- ers, inclusive.	21 to 50 wage earn- ers, inclusive.	51 to 100 wage earn- ers, inclusive.	101 to 250 wage earn- ers, inclusive.	251 to 500 wage earn- ers, inclusive.	501 to 1,000 wage earn- ers, inclusive.	Over 1,000 wage earn- ers.								
			Establish- ments.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.	Establish- ments.	Wage earn- ers.		
Total for cities <sup>1</sup> .....	3,078	185,790	370	1,644	3,701	788	8,925	385	12,450	237	17,093	210	33,050	75	26,491	41	20,671	28	54,394
ANDERSON.....	90	7,928	4	42	111	19	183	16	527	8	670	3	371	4	1,416	2	1,211	1	3,430
BLOOMINGTON.....	39	1,420	6	17	49	9	86	3	103	2	150	1	114	.....	.....	1	918	.....	.....
CLINTON.....	20	469	6	0	20	6	50	3	108	.....	.....	2	282	.....	.....	.....	.....	.....	.....
CRAWFORDSVILLE.....	65	785	13	22	54	11	123	5	151	3	192	.....	1	265	.....	.....	.....	.....	.....
EAST CHICAGO.....	61	8,957	5	17	25	10	140	3	90	6	480	9	1,322	4	1,350	7	5,544	.....	.....
ELKHART.....	120	5,728	10	40	113	15	184	18	568	8	568	3	497	6	2,106	2	1,092	.....	.....
ELWOOD.....	32	2,107	.....	15	39	6	60	2	61	1	58	5	666	2	610	1	673	.....	.....
EVANSVILLE.....	299	12,526	21	117	251	60	686	35	1,099	32	2,470	28	4,220	3	1,088	2	1,143	1	1,560
FORT WAYNE.....	247	16,344	11	107	293	63	646	20	960	14	940	16	2,781	5	3,231	3	7,484	.....	.....
FRANKFORT.....	34	1,275	.....	13	21	12	123	4	120	1	93	3	516	1	393	.....	.....	.....	.....
HAMMOND.....	94	6,065	10	40	89	16	186	8	294	7	506	8	1,419	3	1,205	1	726	1	1,640
HUNTINGTON.....	57	2,165	3	26	60	16	184	5	146	3	296	3	620	.....	.....	1	850	.....	.....
INDIANAPOLIS.....	1,004	49,977	126	361	883	238	2,730	118	3,707	59	4,120	59	9,197	26	8,000	8	5,563	9	14,787
JEFFERSONVILLE.....	29	1,017	3	15	28	7	88	2	66	1	74	.....	1	767	.....	.....	.....	.....	.....
KOKOMO.....	98	6,727	5	51	104	24	318	4	118	1	94	6	1,078	3	1,262	2	1,376	2	2,377
LA PORTE.....	52	3,502	5	17	42	11	146	8	254	4	263	5	822	1	323	.....	.....	1	1,652
LAFAYETTE.....	85	2,550	7	33	68	28	338	7	226	5	406	4	704	.....	.....	1	748	.....	.....
LOGANSPOET.....	67	2,338	6	29	65	20	249	7	224	3	168	.....	1	303	.....	.....	1	1,320	.....
MARION.....	101	4,646	8	38	100	17	172	12	309	12	872	10	1,625	3	860	1	642	.....	.....
MICHIGAN CITY.....	47	3,452	7	17	32	11	143	3	85	0	441	1	249	1	449	.....	.....	1	2,053
MISHAWAKA.....	32	5,068	5	14	27	4	43	4	130	1	56	.....	.....	2	790	.....	.....	2	4,022
MUNCIE.....	121	6,550	10	53	138	20	212	14	483	10	719	9	1,247	2	829	2	1,600	1	1,271
NEW ALBANY.....	93	1,239	13	56	150	10	93	7	243	3	184	4	569	.....	.....	.....	.....	.....	.....
NEW CASTLE.....	33	4,041	2	13	36	9	112	4	104	2	127	1	208	.....	.....	1	617	1	2,777
PERU.....	40	1,466	.....	10	62	9	95	1	40	0	440	4	556	1	273	.....	.....	.....	.....
RICHMOND.....	144	4,938	20	69	144	22	256	11	361	10	711	7	964	3	1,055	2	1,447	.....	.....
SOUTH BEND.....	214	14,792	10	91	253	51	506	23	709	12	788	8	1,065	6	2,272	1	893	3	8,246
TERRE HAUTE.....	257	6,458	31	134	298	45	493	24	800	9	672	11	1,705	2	742	.....	.....	1	1,748
VINCENNES.....	98	1,191	5	66	140	19	181	5	190	8	520	1	199	.....	.....	.....	.....	.....	.....

<sup>1</sup>Excludes Gary and Whiting, 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.....	7,916	8,022	7,969	277,580	197,503	186,084	\$1,898,753,387	\$730,795,021	\$570,075,046	\$723,802,819	\$306,937,864	\$244,700,293
Less than \$5,000.....	1,904	3,014	3,086	1,520	3,001	4,335	5,008,902	7,231,163	7,339,368	3,077,614	4,458,865	4,513,557
\$5,000 to \$20,000.....	2,346	2,413	2,400	6,419	10,621	11,806	25,007,804	24,825,063	24,495,478	13,137,506	13,287,058	13,033,825
\$20,000 to \$100,000.....	1,963	1,610	1,627	20,425	20,001	30,944	91,904,578	73,420,668	73,582,108	41,922,190	33,760,067	33,707,243
\$100,000 to \$500,000.....	1,080	769	764	53,434	83,473	89,346	245,150,178	165,866,014	200,078,038	111,847,257	102,624,022	92,184,074
\$500,000 to \$1,000,000.....	255	93	.....	34,373	.....	.....	174,838,472	93,005,400	.....	77,126,780	.....	.....
\$1,000,000 and over.....	302	123	92	161,409	70,807	56,553	1,350,843,363	395,840,653	272,679,094	476,691,472	152,807,252	101,170,094
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.....	24.8	37.6	38.7	0.5	1.8	2.3	0.3	1.0	1.3	0.4	1.5	1.8
\$5,000 to \$20,000.....	29.6	30.1	30.1	2.3	5.4	6.3	1.3	3.4	4.2	1.8	4.3	5.3
\$20,000 to \$100,000.....	24.8	20.1	20.4	7.4	14.7	16.5	4.8	10.0	12.7	5.8	11.0	13.8
\$100,000 to \$500,000.....	13.7	9.6	.....	19.2	42.3	44.0	12.0	22.7	34.7	15.5	33.4	37.7
\$500,000 to \$1,000,000.....	3.2	1.2	.....	12.4	.....	.....	9.2	8.7	.....	10.7	.....	.....
\$1,000,000 and over.....	3.8	1.5	1.2	58.1	35.9	30.2	71.5	54.2	47.1	65.9	49.8	41.3



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.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
AGRICULTURAL IMPLEMENTS.	29	33	100.0	100.0	5,533	3,991	100.0	100.0	\$31,823,733	\$12,791,461	100.0	100.0	\$19,208,811	\$9,304,796	100.0	100.0
Less than \$5,000.	4	7	13.8	21.2	5	8	0.1	0.2	11,066	19,617	(1)	0.2	6,389	11,679	(1)	0.1
\$5,000 to \$20,000.	5	3	17.2	9.1	36	20	0.7	0.5	70,213	24,820	0.2	0.2	43,543	15,641	0.2	0.2
\$20,000 to \$100,000.	6	10	20.7	30.3	73	154	1.3	3.9	288,666	384,814	0.9	3.0	128,205	206,177	0.7	2.2
\$100,000 to \$500,000.	7	10	24.1	30.3	319	11,148	5.8	28.8	1,814,727	3,296,225	5.7	25.8	1,018,944	2,146,068	5.3	23.1
\$500,000 to \$1,000,000.	3	3	10.3	9.1	495	2,661	8.9	66.7	1,956,472	9,065,985	6.1	70.9	1,183,757	6,925,231	6.2	74.4
\$1,000,000 and over.	4	3	13.8	9.1	4,605	2,661	83.2	66.7	27,082,589	9,065,985	87.0	70.9	16,827,973	6,925,231	87.6	74.4
AUTOMOBILE BODIES AND PARTS	145	48	100.0	100.0	15,229	2,817	100.0	100.0	71,717,249	5,750,588	100.0	100.0	31,648,047	3,304,474	100.0	100.0
Less than \$5,000.	23	9	15.9	18.8	10	19	0.1	0.7	51,918	19,435	0.1	0.3	35,859	9,047	0.1	0.3
\$5,000 to \$20,000.	37	13	25.5	27.1	97	65	0.6	2.3	372,120	142,507	0.5	2.5	198,486	88,858	0.6	2.7
\$20,000 to \$100,000.	35	13	24.1	27.1	515	363	3.4	12.9	1,356,737	619,921	1.9	10.8	759,700	338,884	2.4	10.3
\$100,000 to \$500,000.	22	13	15.2	27.1	1,365	2,370	9.0	84.1	4,972,891	4,968,725	6.9	86.4	2,584,847	2,867,685	8.2	86.8
\$500,000 to \$1,000,000.	14	9	9.7	23.7	2,036	13.4	13.4	73.6	9,473,064	13.2	13.2	4,162,102	13.2	13.2	13.2	13.2
\$1,000,000 and over.	14	9	9.7	23.7	11,206	73.6	73.6	73.6	55,490,519	77.4	77.4	23,907,053	75.5	75.5	75.5	75.5
AUTOMOBILES.	27	38	100.0	100.0	10,544	4,402	100.0	100.0	107,347,614	23,638,500	100.0	100.0	29,649,869	7,254,010	100.0	100.0
\$5,000 to \$20,000.	4	5	13.2	13.2	4	21	0.5	0.5	42,900	271,254	0.2	0.2	19,591	78,130	0.3	0.3
\$20,000 to \$100,000.	6	6	15.8	15.8	6	66	1.5	1.5	271,254	3,601,696	1.1	14.8	78,130	2,813,711	1.1	38.8
\$100,000 to \$500,000.	11	11	28.9	28.9	1,988	4.5	45.2	45.2	3,601,696	4,408,065	3.0	18.0	635,888	2,813,711	2.1	2.1
\$500,000 to \$1,000,000.	9	7	33.3	18.4	475	2,327	95.5	52.9	3,200,530	15,414,285	97.0	65.2	29,013,983	4,342,578	97.9	59.9
\$1,000,000 and over.	18	9	66.7	23.7	10,069	2,327	95.5	52.9	104,147,084	15,414,285	97.0	65.2	29,013,983	4,342,578	97.9	59.9
BREAD AND OTHER BAKERY PRODUCTS.	802	825	100.0	100.0	3,759	3,188	100.0	100.0	30,020,059	12,464,260	100.0	100.0	10,543,925	5,230,372	100.0	100.0
Less than \$5,000.	128	333	16.0	40.4	58	258	1.5	8.1	390,024	1,028,089	1.3	8.2	159,829	475,055	1.5	9.1
\$5,000 to \$20,000.	407	394	50.7	47.8	581	980	15.5	30.7	4,494,570	3,623,136	15.0	29.1	1,510,022	1,581,519	14.3	30.2
\$20,000 to \$100,000.	220	83	27.4	10.1	1,140	812	30.3	25.5	9,122,303	3,074,755	30.4	24.7	2,785,820	1,220,490	26.4	23.3
\$100,000 to \$500,000.	38	15	4.7	1.8	698	1,138	18.6	35.7	6,819,489	4,788,280	22.7	38.0	2,271,039	1,953,308	21.5	37.3
\$500,000 to \$1,000,000.	5	5	0.6	0.5	402	10.7	10.7	23.4	3,178,926	6,014,747	10.6	20.0	1,177,982	2,639,233	11.2	25.0
\$1,000,000 and over.	4	4	0.5	0.5	880	23.4	23.4	23.4	6,014,747	6,014,747	20.0	20.0	2,639,233	2,639,233	25.0	25.0
BUTTER.	92	111	100.0	100.0	1,453	654	100.0	100.0	27,900,732	7,904,719	100.0	100.0	3,852,905	1,231,990	100.0	100.0
Less than \$5,000.	3	14	3.3	12.6	5	8	0.3	1.2	9,609	43,264	(1)	0.5	1,225	7,136	(1)	0.6
\$5,000 to \$20,000.	6	35	6.5	31.5	5	45	0.3	6.9	65,035	424,356	0.2	5.4	15,039	64,217	0.4	5.2
\$20,000 to \$100,000.	35	44	38.0	39.6	79	200	5.4	30.6	1,976,008	2,111,044	7.1	26.7	276,898	350,098	7.2	28.4
\$100,000 to \$500,000.	28	18	30.4	16.2	315	401	21.7	61.3	5,846,498	5,326,055	21.0	67.4	871,624	810,539	22.6	65.8
\$500,000 to \$1,000,000.	12	12	13.0	8.7	374	680	25.7	46.8	8,083,332	11,320,250	31.1	40.6	1,438,863	1,240,256	37.3	32.4
\$1,000,000 and over.	8	8	8.7	8.7	680	680	46.8	46.8	11,320,250	11,320,250	40.6	40.6	1,240,256	1,240,256	32.4	32.4
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.	77	49	100.0	100.0	23,099	14,308	100.0	100.0	61,232,356	20,585,579	100.0	100.0	36,365,693	11,203,130	100.0	100.0
\$20,000 to \$100,000.	7	19	27.3	38.8	7,514	7,663	2.2	4.6	1,101,047	7,793,139	1.8	3.9	7,819,083	7,490,369	2.3	4.4
\$100,000 to \$500,000.	29	19	37.7	38.8	3,014	10,217	13.0	43.2	6,848,447	4,907,018	11.2	23.8	4,871,927	4,530,397	13.4	40.5
\$500,000 to \$1,000,000.	10	4	13.0	8.2	2,866	12.4	12.4	52.2	7,384,323	3,193,468	12.1	15.5	4,663,398	1,140,992	12.8	27.0
\$1,000,000 and over.	17	7	22.1	14.3	16,705	7,518	72.3	52.2	45,898,534	11,691,964	75.0	56.8	26,010,395	6,176,364	71.5	55.1
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.	47	41	100.0	100.0	11,756	4,075	100.0	100.0	41,594,125	8,879,178	100.0	100.0	20,784,448	4,948,531	100.0	100.0
\$5,000 to \$20,000.	10	12	21.3	29.3	49	455	0.4	1.3	123,481	4,102,995	0.3	1.2	66,812	459,322	0.3	1.2
\$20,000 to \$100,000.	12	16	25.5	39.0	195	360	1.7	8.8	581,544	766,337	1.4	8.6	312,036	413,077	1.5	8.3
\$100,000 to \$500,000.	12	13	25.5	31.7	643	63,660	5.5	89.8	2,561,206	8,009,846	6.2	90.2	1,400,632	4,476,132	6.7	90.5
\$500,000 to \$1,000,000.	5	5	10.6	17.0	798	8.7	8.7	8.7	3,540,451	3,540,451	8.5	8.5	1,818,685	1,818,685	8.8	8.8
\$1,000,000 and over.	8	8	17.0	17.0	10,071	85.7	85.7	85.7	34,781,443	34,781,443	83.6	83.6	17,186,283	17,186,283	82.7	82.7
FLOUR-MILL AND GRISTMILL PRODUCTS.	450	512	100.0	100.0	2,280	2,281	100.0	100.0	75,111,435	37,488,223	100.0	100.0	9,371,400	5,247,557	100.0	100.0
Less than \$5,000.	33	82	7.3	16.0	11	58	0.5	2.5	100,644	232,683	0.1	0.6	18,921	53,790	0.2	1.0
\$5,000 to \$20,000.	105	184	23.3	35.9	84	291	3.7	12.8	1,292,371	2,290,653	1.7	6.1	248,097	542,191	2.6	10.3
\$20,000 to \$100,000.	223	197	49.6	38.5	496	711	21.8	31.2	10,726,276	8,251,693	14.3	22.0	1,655,119	1,649,481	17.7	31.4
\$100,000 to \$500,000.	62	34	13.8	6.6	429	2,644	18.8	23.8	10,770,552	6,815,632	14.3	18.2	1,482,660	1,410,992	15.8	27.0
\$500,000 to \$1,000,000.	11	6	2.4	1.2	198	8.7	8.7	29.7	7,290,363	3,747,729	9.7	10.0	699,633	699,633	7.5	7.5
\$1,000,000 and over.	10	9	3.6	1.8	1,062	677	46.6	29.7	44,928,229	16,149,833	59.8	43.1	5,266,970	1,585,103	56.2	30.2
FOUNDRY AND MACHINE-SHOP PRODUCTS.	422	348	100.0	100.0	20,184	11,860	100.0	100.0	91,528,971	35,013,983	100.0	100.0	51,549,226	20,861,054	100.0	100.0
Less than \$5,000.	85	93	20.1	26.7	56	102	0.3	0.9	223,640	221,105	0.2	0.6	165,506	157,280	0.3	0.8
\$5,000 to \$20,000.	92	96	21.8	27.6	315	509	1.6	4.3	1,001,816	1,065,801	1.1	3.0	654,663	668,570	1.3	3.2
\$20,000 to \$100,000.	111	96	26.3	27.6	1,780	2,333	8.8	19.7	5,811,531	4,720,167	6.3	13.5	3,498,559	2,640,592	6.8	12.7
\$100,000 to \$500,000.	91	49	21.6	14.1	5,262	5,55										



## MANUFACTURES—INDIANA.

15

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.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	559	622	100.0	100.0	3,511	3,305	100.0	100.0	\$19,184,087	\$10,103,181	100.0	100.0	\$13,406,852	\$7,582,709	100.0	100.0
Less than \$5,000.....	242	353	43.3	56.8	243	550	6.9	16.2	684,012	884,042	3.5	8.7	513,020	721,625	3.8	9.5
\$5,000 to \$20,000.....	180	180	32.2	28.0	600	804	17.3	20.3	1,870,040	1,785,550	9.8	17.6	1,306,573	1,412,922	10.3	18.6
\$20,000 to \$100,000.....	100	70	17.0	11.3	953	837	27.1	24.7	4,223,031	2,900,004	22.0	28.6	3,154,552	2,230,005	23.4	29.4
\$100,000 to \$500,000.....	33	10	5.0	3.1	1,228	1,114	35.0	32.8	6,070,025	4,502,085	38.4	45.2	4,943,215	3,217,257	36.6	42.4
\$500,000 to \$1,000,000.....	24		0.7		481		13.7		5,440,179		28.4		3,480,302		25.9	
SLAUGHTERING AND MEAT PACKING.....	57	65	100.0	100.0	5,691	4,481	100.0	100.0	134,028,720	51,021,537	100.0	100.0	12,330,032	4,759,426	100.0	100.0
\$5,000 to \$20,000.....	3	11	5.3	16.9	6	21	0.1	0.5	43,441	113,770	(*)	0.2	12,593	20,030	0.1	0.6
\$20,000 to \$100,000.....	11	22	19.3	33.8	27	80	0.5	1.8	642,520	1,048,234	0.5	2.1	95,877	178,375	0.8	3.7
\$100,000 to \$500,000.....	24	20	42.1	30.8	236	250	4.1	11.6	5,817,761	4,388,094	4.3	8.6	876,711	1,079,181	7.1	22.7
\$500,000 to \$1,000,000.....	6	4	10.5	6.2	150		2.6		4,018,350	3,203,403	3.0	6.3	338,704		5.2	
\$1,000,000 and over.....	13	8	22.8	12.3	5,272	3,861	92.0	86.2	123,506,048	42,207,940	92.1	82.8	10,715,087	3,472,840	86.8	73.0

\* Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

\* Includes the group "\$1,000,000 and over."

\* Includes the group "Less than \$5,000."

\* Less than one-tenth of 1 per cent.

\* 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. <sup>1</sup>	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT. <sup>1</sup>	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.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ANDERSON.....	90	7,928	100.0	\$38,930,509	100.0	\$10,840,340	100.0	FORT WAYNE.....	247	16,344	100.0	\$76,713,202	100.0	\$38,804,707	100.0
Less than \$5,000.....	10	11	0.1	28,881	0.1	17,287	0.1	Less than \$5,000.....	34	37	0.2	101,051	0.1	60,263	0.2
\$5,000 to \$20,000.....	29	91	1.2	321,602	0.8	182,758	1.1	\$5,000 to \$20,000.....	69	212	1.3	758,907	1.0	460,859	1.2
\$20,000 to \$100,000.....	23	337	4.3	1,100,953	2.8	511,921	3.0	\$20,000 to \$100,000.....	74	804	5.5	3,017,044	4.7	1,809,366	4.8
\$100,000 to \$500,000.....	24	966	12.2	5,037,274	12.9	2,251,704	13.4	\$100,000 to \$500,000.....	40	1,748	10.7	9,092,838	11.9	3,703,457	9.8
\$500,000 to \$1,000,000.....	7	947	11.9	4,805,302	12.3	2,128,203	12.0	\$500,000 to \$1,000,000.....	13	1,175	7.2	7,994,488	10.4	3,958,826	10.2
\$1,000,000 and over.....	6	5,573	70.3	27,036,437	71.0	11,748,407	69.8	\$1,000,000 and over.....	17	12,278	75.1	55,148,334	71.9	28,601,096	73.9
BLOOMINGTON.....	39	1,420	100.0	6,816,002	100.0	2,505,003	100.0	FRANKFORT.....	34	1,275	100.0	6,401,203	100.0	2,149,045	100.0
Less than \$5,000.....	10	7	0.5	18,548	0.3	13,372	0.5	Less than \$5,000.....	7	5	0.4	10,624	0.3	9,325	0.4
\$5,000 to \$20,000.....	6	10	1.1	71,420	1.1	20,780	1.0	\$5,000 to \$20,000.....	4	10	0.8	40,671	0.7	23,251	1.1
\$20,000 to \$100,000.....	15	116	8.2	609,460	8.9	217,552	9.6	\$20,000 to \$100,000.....	13	146	11.5	612,991	9.6	208,572	13.9
\$100,000 and over.....	8	1,281	90.2	6,113,565	89.7	2,278,210	88.8	\$100,000 to \$500,000.....	7	403	31.6	1,932,679	30.2	643,808	30.0
CLINTON.....	26	469	100.0	1,750,794	100.0	737,342	100.0	\$500,000 and over.....	3	711	55.8	3,792,298	59.2	1,174,020	54.6
Less than \$5,000.....	6	4	0.9	13,775	0.8	10,673	1.4	HAMMOND.....	94	6,065	100.0	59,270,319	100.0	10,324,550	100.0
\$5,000 to \$20,000.....	7	12	2.6	73,856	4.2	37,008	5.1	Less than \$5,000.....	17	10	0.2	54,328	0.1	27,833	0.1
\$20,000 to \$100,000.....	9	118	25.2	359,614	20.5	178,078	24.2	\$5,000 to \$20,000.....	21	48	0.8	218,284	0.4	116,135	0.6
\$100,000 and over.....	4	335	71.1	1,303,519	74.5	510,723	69.3	\$20,000 to \$100,000.....	25	236	3.9	1,163,634	2.0	653,657	3.4
CRAWFORDSVILLE.....	55	785	100.0	4,837,222	100.0	1,960,026	100.0	\$100,000 to \$500,000.....	17	950	15.7	4,242,716	7.2	2,426,473	12.6
Less than \$5,000.....	14	2	0.3	30,277	0.6	14,241	0.7	\$500,000 to \$1,000,000.....	4	455	7.5	2,082,419	4.5	1,536,902	8.0
\$5,000 to \$20,000.....	18	53	6.8	220,135	4.6	80,758	4.0	\$1,000,000 and over.....	10	4,366	72.0	50,914,938	85.9	14,563,490	75.4
\$20,000 to \$100,000.....	12	164	20.9	639,796	13.2	357,031	18.2	HUNTINGTON.....	57	2,165	100.0	9,977,014	100.0	5,479,055	100.0
\$100,000 and over.....	11	506	72.1	3,947,014	81.6	1,505,896	76.6	Less than \$5,000.....	12	19	0.9	26,493	0.3	19,555	0.4
EAST CHICAGO.....	61	8,057	100.0	89,508,753	100.0	26,234,070	100.0	\$5,000 to \$20,000.....	15	41	1.9	132,541	1.3	79,136	1.4
Less than \$5,000.....	10	5	0.1	25,542	(*)	11,202	(*)	\$20,000 to \$100,000.....	15	159	7.3	780,280	7.8	363,018	6.6
\$5,000 to \$20,000.....	11	19	0.2	115,539	0.1	62,083	0.2	\$100,000 to \$500,000.....	8	261	12.1	1,752,780	17.6	787,143	14.4
\$20,000 to \$100,000.....	8	120	1.3	427,006	0.5	221,308	0.9	\$500,000 to \$1,000,000.....	4	403	18.6	2,626,558	26.3	1,333,382	24.3
\$100,000 to \$500,000.....	10	605	6.8	3,204,750	3.6	1,425,281	5.4	\$1,000,000 and over.....	3	1,282	59.2	4,658,302	46.7	2,896,821	52.0
\$500,000 to \$1,000,000.....	3	468	5.2	2,020,404	2.9	1,418,383	5.4	INDIANAPOLIS.....	1004	40,977	100.0	398,666,553	100.0	181,912,215	100.0
\$1,000,000 and over.....	19	7,740	86.4	83,100,503	92.8	23,102,420	88.1	Less than \$5,000.....	158	59	0.1	38,1024	0.1	243,040	0.2
ELKHART.....	120	5,728	100.0	24,421,404	100.0	11,059,058	100.0	\$5,000 to \$20,000.....	258	746	1.5	2,787,366	0.7	1,657,789	1.3
Less than \$5,000.....	26	27	0.5	70,177	0.3	38,537	0.3	\$20,000 to \$100,000.....	294	3,297	6.6	14,437,040	3.6	8,011,505	6.1
\$5,000 to \$20,000.....	32	75	1.3	330,491	1.4	103,338	1.7	\$100,000 to \$500,000.....	186	8,944	17.9	42,365,815	10.6	20,807,352	15.8
\$20,000 to \$100,000.....	32	490	8.6	1,608,073	6.8	842,160	7.6	\$500,000 to \$1,000,000.....	43	5,795	11.6	30,026,186	7.5	13,817,833	10.5
\$100,000 to \$500,000.....	17	683	11.9	3,350,606	13.7	1,602,600	14.5	\$1,000,000 and over.....	65	31,136	62.3	308,670,122	77.4	87,374,696	66.2
\$500,000 to \$1,000,000.....	4	1,143	20.0	2,968,383	12.2	2,013,820	18.5	KOKOMO.....	98	6,727	100.0	38,709,165	100.0	17,116,457	100.0
\$1,000,000 and over.....	9	3,310	57.8	10,027,704	65.0	6,330,143	57.3	Less than \$5,000.....	14	9	0.1	30,510	0.1	16,855	0.1
ELWOOD.....	32	2,167	100.0	15,614,537	100.0	5,120,323	100.0	\$5,000 to \$20,000.....	33	88	1.3	306,865	0.8	138,183	0.8
Less than \$5,000.....	10	27	1.2	41,067	0.6	52,087	1.0	\$20,000 to \$100,000.....	23	227	3.4	1,112,709	2.9	546,035	3.2
\$5,000 to \$20,000.....	12	112	5.2	405,492	2.6	206,210	4.0	\$100,000 to \$500,000.....	18	899	13.4	5,005,765	12.9	1,637,406	9.6
\$20,000 to \$100,000.....	5	431	20.0	1,317,103	8.6	580,365	11.4	\$1,000,000 and over.....	10	5,504	81.8	32,253,326	83.3	14,778,378	86.3
\$500,000 and over.....	5	1,504	73.6	13,800,875	88.2	4,280,725	83.5	LA PORTE.....	52	3,502	100.0	20,580,800	100.0	10,050,147	100.0
EVANSVILLE.....	209	12,526	100.0	70,230,410	100.0	26,081,627	100.0	Less than \$5,000.....	3		(*)	6,136	(*)	3,479	(*)
Less than \$5,000.....	62	42	0.3	130,779	0.2	70,374	0.3	\$5,000 to \$20,000.....	16	40	1.1	195,006	0.9	81,875	0.8
\$5,000 to \$20,000.....	60	184	1.5	633,414	0.9	319,531	1.2	\$20,000 to \$100,000.....	14	202	5.8	787,244	3.8	438,247	4.4
\$20,000 to \$100,000.....	73	841	6.7	3,500,316	5.1	1,682,478	6.5	\$100,000 to \$500,000.....	13	602	17.2	2,863,201	13.9	1,276,068	12.7
\$100,000 to \$500,000.....	74	1,421	35.3	19,364,932	27.6	9,866,984	37.8	\$500,000 and over.....	6	2,658	75.9	16,729,303	81.3	8,246,878	82.1
\$500,000 to \$1,000,000.....	20	3,250	26.0	11,337,616	20.4	6,702,147	25.9								
\$1,000,000 and over.....	10	3,779	30.2	32,194,362	45.8	7,374,113	28.3								

\* Excludes Gary, Jeffersonville, Michigan City, and Whiting, to avoid disclosure of individual operations.

\* Less than one-tenth of 1 per cent.

\* 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—Continued.

CITY AND VALUE OF PRODUCT. <sup>1</sup>	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT. <sup>1</sup>	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.			Average number.	Per cent. of total.	Amount.	Per cent. of total.	Amount.	Per cent. of total.
LAFAYETTE.....	85	2,550	100.0	\$12,616,169	100.0	\$5,737,385	100.0	NEW CASTLE.....	33	4,041	100.0	\$14,583,738	100.0	\$6,085,172	100.0
Less than \$5,000.....	14	10	0.4	41,500	0.3	31,031	0.5	Less than \$5,000.....	3	3	0.1	8,662	(2)	5,026	0.1
\$5,000 to \$20,000.....	24	83	3.3	337,199	2.7	152,057	2.7	\$5,000 to \$20,000.....	8	25	0.6	85,524	0.6	42,631	0.7
\$20,000 to \$100,000.....	28	352	13.8	1,375,187	10.9	757,792	13.2	\$20,000 to \$100,000.....	11	98	2.4	465,948	3.2	227,734	3.7
\$100,000 to \$500,000.....	15	868	34.0	4,184,233	33.2	2,028,907	35.4	\$100,000 and over.....	11	3,915	96.9	14,025,604	96.2	5,809,781	95.5
\$1,000,000 and over.....	4	1,237	48.5	6,678,050	52.9	2,767,598	48.2	PERU.....	40	1,466	100.0	4,704,560	100.0	2,259,484	100.0
LOGANSFORD.....	67	2,338	100.0	7,746,446	100.0	3,821,932	100.0	Less than \$5,000.....	3	8	0.5	9,949	0.2	7,043	0.3
Less than \$5,000.....	11	5	0.2	30,053	0.4	16,092	0.4	\$5,000 to \$20,000.....	13	47	3.2	149,015	3.2	92,529	4.1
\$5,000 to \$20,000.....	16	44	1.9	162,345	2.1	89,559	2.3	\$20,000 to \$100,000.....	11	137	9.3	523,292	11.1	248,651	11.0
\$20,000 to \$100,000.....	31	404	19.8	1,461,576	18.9	762,888	20.7	\$100,000 and over.....	13	1,274	86.9	4,022,304	85.5	1,911,261	84.6
\$100,000 and over.....	9	1,825	78.1	6,092,472	78.6	2,923,393	76.5	RICHMOND.....	144	4,938	100.0	22,893,643	100.0	10,181,945	100.0
MARION.....	101	4,646	100.0	24,325,085	100.0	9,506,264	100.0	Less than \$5,000.....	35	16	0.3	81,397	0.4	54,658	0.5
Less than \$5,000.....	15	10	0.2	36,048	0.1	20,028	0.2	\$5,000 to \$20,000.....	44	97	2.0	515,415	2.3	277,534	2.7
\$5,000 to \$20,000.....	22	66	1.4	256,201	1.1	127,572	1.3	\$20,000 to \$100,000.....	26	268	5.4	1,159,199	5.1	569,639	5.6
\$20,000 to \$100,000.....	27	295	6.3	1,395,064	5.7	631,000	6.6	\$100,000 to \$500,000.....	26	1,201	24.3	6,145,131	26.8	2,320,881	22.8
\$100,000 to \$500,000.....	22	1,566	33.7	5,435,814	22.3	2,451,729	25.8	\$500,000 to \$1,000,000.....	7	912	18.5	4,676,932	20.4	1,703,006	16.7
\$500,000 to \$1,000,000.....	8	815	18.2	5,407,398	22.2	1,999,255	21.0	\$1,000,000 and over.....	6	2,444	49.5	10,315,569	45.1	5,256,157	51.6
\$1,000,000 and over.....	7	1,864	40.1	11,794,470	48.5	4,276,680	45.0	SOUTH BEND.....	214	14,792	100.0	75,339,165	100.0	36,633,018	100.0
MISHAWAKA.....	32	5,068	100.0	27,765,010	100.0	13,737,273	100.0	Less than \$5,000.....	33	19	0.1	78,247	0.1	51,303	0.1
Less than \$5,000.....	7	4	0.1	17,396	0.1	13,102	0.1	\$5,000 to \$20,000.....	56	208	1.4	767,916	1.0	412,354	1.1
\$5,000 to \$20,000.....	11	37	0.7	98,256	0.4	53,512	0.4	\$20,000 to \$100,000.....	70	765	5.2	3,135,143	4.2	1,594,811	4.4
\$20,000 to \$100,000.....	3	10	0.2	105,340	0.4	64,109	0.5	\$100,000 to \$500,000.....	33	1,228	8.3	6,610,820	8.8	3,326,286	9.1
\$100,000 and over.....	11	5,017	99.0	27,544,018	99.2	13,606,559	99.0	\$500,000 to \$1,000,000.....	12	1,719	11.6	8,276,971	11.0	3,611,313	9.9
MUNCIE.....	121	6,559	100.0	33,175,525	100.0	14,365,274	100.0	\$1,000,000 and over.....	10	10,853	73.4	56,470,088	75.0	27,636,951	75.4
Less than \$5,000.....	21	10	0.2	55,054	0.2	33,157	0.2	TERRE HAUTE.....	257	6,458	100.0	41,967,818	100.0	15,064,938	100.0
\$5,000 to \$20,000.....	34	98	1.5	355,133	1.1	195,964	1.4	Less than \$5,000.....	57	40	0.6	171,078	0.4	109,160	0.7
\$20,000 to \$100,000.....	29	397	6.1	1,445,203	4.4	622,230	4.3	\$5,000 to \$20,000.....	91	207	3.2	924,224	2.2	531,488	3.5
\$100,000 to \$500,000.....	20	1,004	15.3	4,281,222	12.9	2,308,339	16.1	\$20,000 to \$100,000.....	57	585	9.1	2,620,065	6.2	1,365,693	9.1
\$500,000 to \$1,000,000.....	11	1,188	18.1	6,800,116	20.5	2,956,597	20.6	\$100,000 to \$500,000.....	35	1,545	23.9	8,725,768	20.8	3,961,251	26.3
\$1,000,000 and over.....	6	3,862	58.9	20,238,797	61.0	8,248,987	57.4	\$500,000 to \$1,000,000.....	9	953	14.8	5,902,742	14.1	1,895,755	12.6
NEW ALBANY.....	93	1,239	100.0	6,766,373	100.0	2,638,813	100.0	\$1,000,000 and over.....	8	3,128	48.4	23,623,941	56.3	7,201,591	47.8
Less than \$5,000.....	23	19	1.5	55,980	0.8	36,570	1.4	VINCENNES.....	98	1,191	100.0	7,582,072	100.0	2,996,305	100.0
\$5,000 to \$20,000.....	39	133	10.7	458,415	6.8	257,298	9.7	Less than \$5,000.....	15	9	0.8	39,841	0.5	25,540	0.9
\$20,000 to \$100,000.....	19	225	18.2	861,930	12.7	380,031	14.4	\$5,000 to \$20,000.....	42	116	9.7	434,725	5.7	217,716	7.3
\$100,000 to \$500,000.....	8	391	31.6	1,828,381	27.0	907,009	34.4	\$20,000 to \$100,000.....	25	284	23.8	2,066,732	27.3	675,610	22.5
\$500,000 and over.....	4	471	38.0	3,581,667	52.6	1,057,905	40.1	\$100,000 to \$500,000.....	12	482	40.5	2,877,826	38.0	1,142,970	38.1
								\$500,000 to \$1,000,000.....	4	300	25.2	2,162,948	28.5	934,469	31.2

<sup>1</sup> Excludes Gary, Jeffersonville, Michigan City, and Whiting, to avoid disclosure of individual operations.<sup>2</sup> Includes the group "\$500,000 to \$1,000,000."<sup>2</sup> 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.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS 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.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
All industries.....	1919	3,539	2,963	1,414	277,580	11,998	254,627	10,955	4.3	91.7	3.9	\$1,898,753,387	\$64,089,047	\$1,774,635,258	\$60,029,082	3.4	93.5	3.2				
	1914	3,766	2,080	1,576	197,503	13,574	173,176	10,753	6.9	87.7	5.4	730,795,021	40,193,487	653,169,994	37,426,540	5.5	89.4	5.1				
	1909	3,904	2,363	1,702	186,981	15,607	158,631	12,746	8.3	84.8	6.8	579,075,016	40,929,034	495,570,090	42,575,872	7.1	85.6	7.4				
Agricultural implements..	1919	5	22	2	5,533	130	5,503	.....	0.5	99.5	.....	31,823,733	1,102,304	31,721,429	.....	0.3	99.7	.....				
	1914	8	23	2	3,991	132	3,959	.....	0.8	99.2	.....	12,791,461	155,657	12,735,804	.....	0.4	99.6	.....				
Automobile bodies and parts.	1919	42	76	27	15,229	330	14,783	116	2.2	97.1	0.8	71,717,249	1,031,668	70,203,858	481,723	1.4	97.9	0.7				
	1914	11	34	3	2,817	29	2,781	7	1.0	98.7	0.2	5,750,588	57,730	5,672,356	20,502	1.0	98.6	0.4				
Automobiles.....	1919	1	25	1	10,544	.....	10,544	.....	100.0	.....	.....	107,347,614	.....	107,347,614	.....	100.0	.....	.....				
	1914	2	35	1	4,402	.....	4,402	.....	100.0	.....	.....	23,638,500	.....	23,638,500	.....	100.0	.....	.....				
Bread and other bakery products.	1919	613	51	138	3,750	1,459	1,804	496	38.8	48.0	13.2	30,020,059	11,760,473	13,973,454	4,286,132	30.2	46.5	14.3				
	1914	658	33	134	3,188	1,450	1,310	428	45.5	41.1	13.4	12,464,260	5,488,250	5,387,240	1,588,770	44.0	43.2	12.7				
Butter.....	1919	22	49	21	1,453	68	1,310	75	4.7	90.2	5.2	27,900,732	1,375,011	23,915,531	2,610,190	4.9	85.7	9.4				
	1914	36	36	39	654	100	408	146	15.3	62.4	22.3	7,904,719	1,086,687	5,147,160	1,670,872	13.7	65.1	21.1				
Canning and preserving, fruits and vegetables.	1919	27	85	24	2,949	189	2,292	468	6.4	77.7	15.9	18,898,767	673,856	16,232,370	1,992,541	3.6	85.9	10.5				
	1914	26	72	21	3,108	150	2,701	344	4.7	84.6	10.8	8,376,249	164,364	7,481,101	730,784	2.0	89.3	8.7				
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	77	.....	23,090	.....	23,090	.....	100.0	.....	.....	61,232,356	.....	61,232,356	.....	100.0	.....	.....				
	1914	.....	49	.....	14,398	.....	14,398	.....	100.0	.....	.....	20,585,579	.....	20,585,579	.....	100.0	.....	.....				
Cars, steam-railroad, not including operations of railroad companies.	1919	.....	9	.....	6,650	.....	6,650	.....	100.0	.....	.....	86,021,028	.....	86,021,028	.....	100.0	.....	.....				
	1914	.....	10	.....	5,800	.....	5,800	.....	100.0	.....	.....	21,570,441	.....	21,570,441	.....	100.0	.....	.....				

<sup>1</sup> Includes the group "All others."<sup>2</sup> Includes the groups "Individuals" and "All others."



## MANUFACTURES—INDIANA.

17

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.								
		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.				
Cement.....	1919	1	5	.....	1,953	.....	1,953	.....	100.0	.....	.....	\$13,362,808	.....	\$13,362,808	.....	.....	.....	100.0	.....	.....		
	1914	1	6	.....	2,354	.....	2,354	.....	100.0	.....	.....	10,166,700	.....	10,166,700	.....	.....	.....	100.0	.....	.....		
Clothing, men's.....	1919	6	20	11	3,480	92	2,921	467	2.6	83.9	13.4	15,000,017	\$200,040	12,701,319	\$2,029,682	1.4	85.1	13.5	.....	.....	.....	
	1914	7	19	5	2,667	102	2,350	209	3.8	88.3	7.8	5,360,015	90,688	4,805,008	467,319	1.8	89.5	8.7	.....	.....	.....	
Electrical machinery, apparatus, and supplies.	1919	2	43	2	11,750	210	11,746	.....	0.1	99.9	.....	41,594,125	235,240	41,558,885	.....	0.1	99.9	.....	.....	.....		
	1914	4	35	2	4,075	222	4,053	.....	0.5	99.5	.....	8,870,178	51,158	8,828,020	.....	0.6	99.4	.....	.....	.....		
Engines, steam, gas, and water.	1919	3	12	1	2,853	233	2,820	.....	1.2	98.8	.....	14,472,788	98,728	14,404,060	.....	0.5	99.5	.....	.....	.....		
	1914	5	11	2	1,311	243	1,207	.....	3.4	96.6	.....	2,808,386	61,874	2,746,512	.....	2.3	97.7	.....	.....	.....		
Flour-mill and gristmill products.	1919	202	132	116	2,280	320	1,674	286	11.0	73.1	12.5	75,111,135	7,332,454	60,545,702	7,233,279	9.8	80.0	9.6	.....	.....	.....	
	1914	218	124	170	2,281	412	1,416	453	18.1	62.1	19.9	37,488,223	4,542,704	27,281,751	5,660,708	12.1	72.8	15.1	.....	.....	.....	
Foundry and machine-shop products. <sup>a</sup>	1919	133	228	61	20,184	595	18,794	795	2.9	93.1	3.9	91,628,971	2,324,057	85,103,148	4,101,766	2.5	93.0	4.5	.....	.....	.....	
	1914	117	186	45	11,800	808	10,815	237	6.8	91.2	2.0	35,013,983	2,481,423	31,438,968	1,093,592	7.1	89.8	3.1	.....	.....	.....	
Furniture.....	1919	21	140	16	13,257	488	12,165	604	3.7	91.8	4.6	52,350,282	1,836,071	48,397,246	2,116,365	3.5	92.4	4.0	.....	.....	.....	
	1914	36	144	17	10,803	525	9,555	423	4.9	91.2	3.9	21,112,316	1,212,814	19,150,120	1,049,375	5.7	89.4	4.9	.....	.....	.....	
Gas, illuminating and heating.	1919	1	52	.....	1,902	.....	1,902	.....	100.0	.....	.....	12,454,206	.....	12,454,206	.....	100.0	.....	.....	.....	.....		
	1914	.....	51	9	1,608	.....	1,653	15	.....	99.1	0.9	6,308,147	.....	6,358,335	39,812	.....	99.1	.....	.....	.....		
Glass.....	1919	.....	35	.....	9,350	.....	9,350	.....	100.0	.....	.....	30,106,652	.....	30,106,652	.....	100.0	.....	.....	.....	.....		
	1914	3	37	1	9,390	2575	8,815	.....	0.1	93.9	.....	14,881,372	2550,551	11,330,821	.....	3.7	96.3	.....	.....	.....		
Iron and steel, steel works and rolling mills.	1919	.....	23	.....	22,362	.....	22,362	.....	100.0	.....	.....	109,273,518	.....	109,273,518	.....	100.0	.....	.....	.....	.....		
	1914	.....	19	.....	11,106	.....	11,106	.....	100.0	.....	.....	58,882,522	.....	58,882,522	.....	100.0	.....	.....	.....	.....		
Lumber and timber products.	1919	270	79	137	4,173	1,111	1,916	1,116	26.6	46.6	26.7	17,775,935	3,885,303	9,741,085	4,149,547	21.9	51.8	23.3	.....	.....	.....	
	1914	302	69	171	4,470	1,722	1,439	1,315	38.5	32.1	29.4	9,710,766	3,457,739	3,937,735	2,345,292	35.5	40.1	24.1	.....	.....	.....	
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	56	126	40	2,238	210	1,858	170	9.4	83.0	7.6	14,102,002	1,090,093	12,080,477	922,432	7.8	85.7	6.5	.....	.....	.....	
	1914	66	120	54	2,550	280	1,856	414	11.0	72.8	16.2	10,006,940	780,036	7,907,101	1,223,803	7.9	79.9	12.2	.....	.....	.....	
Printing and publishing, book and job.	1919	145	79	54	3,041	523	2,326	192	17.2	76.5	6.3	10,741,232	1,806,775	8,150,788	783,600	16.8	75.9	7.3	.....	.....	.....	
	1914	148	66	63	2,529	598	1,901	237	23.6	67.0	9.4	6,237,228	1,380,597	4,206,989	589,642	22.1	68.4	9.5	.....	.....	.....	
Printing and publishing, newspapers and periodicals.	1919	293	144	122	3,511	729	2,112	670	20.8	60.2	19.1	19,181,687	2,221,801	12,107,549	4,855,337	11.6	63.1	25.3	.....	.....	.....	
	1914	353	149	120	3,395	1,210	1,857	328	35.6	51.7	9.7	10,163,181	3,053,438	6,028,805	1,080,938	30.0	59.3	10.6	.....	.....	.....	
Slaughtering and meat packing.	1919	14	26	17	5,691	72	5,403	150	1.3	96.0	2.7	134,028,720	1,835,643	127,988,923	4,201,160	1.4	95.5	3.1	.....	.....	.....	
	1914	20	22	23	4,481	111	4,226	144	2.5	91.3	3.2	51,021,537	1,320,740	47,335,405	2,365,302	2.6	92.8	4.6	.....	.....	.....	
Structural ironwork, not made in steel works or rolling mills.	1919	5	16	2	2,015	97	1,918	.....	4.8	95.2	.....	14,449,060	2697,825	13,752,141	.....	4.8	95.2	.....	.....	.....		
	1914	9	20	3	1,853	146	1,707	.....	7.0	92.1	.....	6,031,711	385,518	6,246,193	.....	5.8	94.2	.....	.....	.....		
Tobacco, cigars.....	1919	201	17	34	4,151	770	1,160	2,218	18.7	27.9	53.4	10,065,913	2,183,465	2,619,724	5,262,761	21.7	26.0	52.3	.....	.....	.....	
	1914	329	17	53	3,583	887	686	2,010	24.8	19.1	56.1	5,309,760	1,581,624	984,548	2,743,588	29.8	18.5	51.7	.....	.....	.....	
Total for cities.....	1919	1,392	1,730	550	185,790	4,463	172,325	7,002	3.5	92.8	3.8	1,186,082,050	33,540,050	1,116,500,042	36,032,349	2.8	94.1	3.0	.....	.....	.....	
	1914	1,305	1,501	520	126,036	4,178	114,228	5,030	4.9	90.0	4.5	459,325,297	19,051,805	420,147,851	17,125,641	4.2	92.1	3.8	.....	.....	.....	
ANDERSON.....	1919	31	55	13	7,928	191	7,680	51	2.4	96.0	0.0	38,930,509	1,275,259	37,150,912	504,338	3.3	95.4	1.3	.....	.....	.....	
	1914	46	51	17	3,906	209	3,610	48	5.4	93.4	1.2	12,780,369	596,232	11,714,648	478,480	4.7	91.6	3.7	.....	.....	.....	
BLOOMINGTON.....	1919	11	14	14	1,420	34	1,244	142	2.4	87.0	10.0	6,816,002	180,905	5,901,084	728,013	2.7	86.6	10.7	.....	.....	.....	
	1914	14	13	13	1,057	25	927	105	2.4	87.7	9.9	2,320,200	64,000	1,941,643	323,647	2.7	83.4	13.9	.....	.....	.....	
CLINTON.....	1919	15	6	5	469	50	404	15	10.7	86.1	3.2	1,750,794	310,788	1,353,806	80,140	18.1	77.3	4.6	.....	.....	.....	
CRAWFORDSVILLE.....	1919	21	25	9	785	52	705	28	6.6	89.8	3.0	4,837,222	509,581	4,221,411	106,230	10.5	87.3	2.2	.....	.....	.....	
	1914	22	23	11	680	78	561	41	11.5	82.5	6.0	2,548,520	228,592	2,126,586	193,351	9.0	83.4	7.6	.....	.....	.....	
EAST CHICAGO.....	1919	12	41	8	8,957	36	8,907	14	0.4	99.4	0.2	80,568,753	107,824	80,177,837	283,092	0.1	99.6	0.3	.....	.....	.....	
	1914	25	39	15	7,482	37	7,401	44	0.5	98.9	0.6	41,023,788	128,457	41,352,476	142,855	0.3	99.3	0.3	.....	.....	.....	
ELKHART.....	1919	40	58	22	5,728	85	5,387	256	1.5	94.0	4.5	24,421,494	663,079	21,910,381	1,848,034	2.7	89.7	7.6	.....	.....	.....	
	1914	34	44	27	2,993	74	2,078	241	2.5	89.5	8.1	8,049,200	250,804	7,258,652	1,130,744	2.9	83.9	13.2	.....	.....	.....	
ELWOOD.....	1919	12	16	5	2,167	55	2,087	25	2.5	96.3	1.2	15,644,537	244,953	15,315,910	83,674	1.6	97.9	0.5	.....	.....	.....	
	1914	20	16	4	1,961	72	1,854	35	3.7	94.5	1.8	8,186,779	180,534	7,944,802	61,443	2.2	97.0	0.8	.....	.....	.....	
EVANSVILLE.....	1919	108	155	30	12,526	607	9,640	2,279	4.8	77.0	18.2	70,230,419	3,178,011	60,770,718	6,281,690	4.5	80.5	8.9	.....	.....	.....	
	1914	115	147	35	10,333	621	7,885	1,827	6.0	76.3	17.7	31,426,707	2,086,459	26,517,963	2,822,285	6.6	84.4	9.0	.....	.....	.....	
FORT WAYNE.....	1919	97																				



## MANUFACTURES—INDIANA.

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
KOKOMO.....	1919	33	44	21	6,727	129	6,528	70	1.9	97.0	1.0	\$38,709,165	\$811,166	\$37,056,520	\$841,479	2.1	95.7	2.2				
	1914	33	33	12	3,289	140	3,112	37	4.3	94.6	1.1	10,641,191	483,589	9,955,989	201,613	4.5	93.6	1.9				
LA PORTE.....	1919	17	28	7	3,502	46	3,426	30	1.3	97.8	0.9	20,580,890	381,971	20,052,183	146,756	1.9	97.4	0.7				
	1914	23	24	8	1,765	56	1,078	31	3.2	95.1	1.8	5,929,339	163,505	5,596,143	169,691	2.8	94.4	2.9				
LAFAYETTE.....	1919	25	47	13	2,550	65	2,408	77	2.5	94.4	3.0	12,616,169	257,730	12,032,955	325,484	2.0	95.4	2.6				
	1914	28	44	12	1,310	92	1,155	63	7.0	88.2	4.8	5,185,788	279,976	4,759,757	146,055	5.4	91.8	2.8				
LOGANSPOBT.....	1919	27	25	15	2,338	175	2,058	105	7.5	88.0	4.5	7,746,446	642,207	6,687,097	437,142	8.3	86.1	5.6				
	1914	30	25	12	1,709	224	1,399	116	13.1	80.1	6.8	3,671,446	479,348	2,847,646	344,452	13.1	77.6	9.4				
MARION.....	1919	36	53	12	4,646	252	4,210	184	5.4	90.6	4.0	24,325,085	1,073,709	21,089,598	1,261,778	8.1	86.7	5.2				
	1914	37	42	11	2,970	166	2,718	86	5.6	91.5	2.9	6,705,183	547,014	5,780,040	378,129	8.2	86.2	5.6				
MICHIGAN CITY.....	1919	23	21	3	3,452	54	3,373	25	1.6	97.7	0.7	37,360,551	282,584	36,968,710	109,267	0.8	99.0	0.3				
	1914	25	21	6	4,442	61	4,351	30	1.4	97.9	0.7	15,119,937	193,631	14,853,810	72,496	1.3	98.2	0.5				
MISHAWAKA.....	1919	13	14	5	5,068	69	4,973	26	1.4	98.1	0.5	27,765,010	207,898	27,340,756	216,356	0.7	98.5	0.8				
	1914	23	17	12	3,332	59	3,230	43	1.8	96.9	1.3	12,304,174	131,861	12,117,696	54,617	1.1	98.5	0.4				
MUNCIE.....	1919	49	54	18	6,559	257	6,090	212	3.9	92.8	3.2	33,175,525	1,354,250	31,117,097	704,178	4.1	93.8	2.1				
	1914	46	50	17	3,687	180	3,401	106	4.9	92.2	2.9	10,779,477	642,555	9,952,839	184,083	6.0	92.3	1.7				
NEW ALBANY.....	1919	46	34	13	1,239	83	1,117	39	6.7	90.2	3.1	6,763,373	498,801	5,878,218	389,854	7.4	86.9	5.8				
	1914	56	30	16	1,458	237	1,146	75	10.3	78.6	5.1	3,255,593	572,281	2,271,274	392,038	17.7	70.2	12.1				
NEW CASTLE.....	1919	13	16	4	4,041	57	3,966	18	1.4	98.1	0.4	14,583,738	356,088	14,064,001	163,649	2.4	96.4	1.1				
	1914	15	14	4	1,950	69	1,871	10	3.5	95.9	0.5	4,468,192	176,710	4,285,817	33,665	3.9	95.3	0.7				
PERU.....	1919	13	14	13	1,466	143	937	386	9.8	63.9	26.3	4,704,560	324,695	3,525,425	854,440	6.9	74.9	18.2				
	1914	12	11	11	787	63	439	235	8.0	62.1	29.9	1,529,351	126,544	857,704	545,103	8.3	56.1	35.6				
RICHMOND.....	1919	66	58	20	4,938	183	4,711	44	3.7	95.4	0.9	22,893,643	1,856,442	20,743,743	293,458	8.1	90.6	1.3				
	1914	63	51	14	3,662	151	3,417	94	4.1	93.3	2.6	10,251,816	587,763	9,222,421	441,631	5.7	90.0	4.3				
SOUTH BEND.....	1919	92	95	27	14,792	565	14,016	211	3.8	94.8	1.4	75,339,165	2,885,158	71,138,742	1,315,265	3.8	94.4	1.7				
	1914	121	99	30	12,203	532	11,505	166	4.4	94.3	1.4	31,179,978	1,008,969	28,988,538	582,471	5.2	98.0	1.9				
TERRE HAUTE.....	1919	118	99	40	6,458	325	5,744	389	5.0	88.9	6.0	41,967,818	1,881,706	37,901,886	2,184,226	4.5	90.3	5.2				
	1914	70	77	24	5,270	223	4,837	205	4.3	91.8	3.9	25,698,719	977,568	24,253,629	767,522	2.6	94.4	3.0				
VINCENNES.....	1919	54	32	12	1,191	144	983	64	12.1	82.5	5.4	7,582,072	807,098	5,724,761	1,050,213	10.6	75.5	13.9				
	1914	38	23	10	962	109	741	112	11.3	77.0	11.6	5,232,941	354,465	3,980,632	888,844	6.8	76.2	17.0				

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. <sup>1</sup>	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.
Number of places.....	1919		29	.....	18	.....	10	.....	1	.....		.....
	1914		27	.....	21	.....	5	.....	1	.....		.....
	1909		24	.....	19	.....	4	.....	1	.....		.....
Population <sup>2</sup> .....	1920	2,930,390	1,106,302	37.8	288,135	9.8	503,973	17.2	314,194	10.7	1,624,088	62.2
	1915	2,779,467	918,279	33.0	360,451	13.0	298,008	10.7	259,820	9.3	1,861,188	67.0
	1910	2,700,876	802,265	29.7	323,194	12.0	245,421	9.1	233,650	8.6	1,898,611	70.3
Number of establishments.....	1919	7,916	3,678	46.5	1,040	13.1	1,634	20.6	1,004	12.7	4,238	53.5
	1914	8,022	3,386	42.2	1,475	18.4	1,025	12.8	886	11.0	4,636	57.8
	1909	7,969	2,970	37.3	1,208	15.2	909	11.4	853	10.7	4,999	62.7
Average number of wage earners.....	1919	277,580	185,790	66.9	44,519	16.0	91,294	32.9	49,977	18.0	91,790	33.1
	1914	197,503	126,036	63.8	48,016	24.6	46,449	23.5	30,971	15.7	71,407	36.2
	1909	186,984	114,036	61.0	47,042	25.2	35,258	18.9	31,736	17.0	72,948	39.0
Value of products.....	1919	\$1,898,753,367	\$1,186,082,950	62.5	\$240,611,819	12.7	\$546,804,578	28.8	\$398,666,553	21.0	\$712,670,437	37.5
	1914	730,795,021	456,825,297	62.4	156,491,455	21.4	160,133,826	21.9	139,700,016	19.1	274,469,724	37.6
	1909	579,075,046	363,570,679	62.8	141,957,001	24.5	95,300,199	16.5	126,313,479	21.8	216,504,307	37.2
Value added by manufacture.....	1919	723,802,819	451,653,011	62.3	98,493,174	13.6	220,647,622	30.5	131,912,215	18.2	272,749,808	37.7
	1914	306,937,804	194,621,426	63.4	70,745,780	23.0	75,230,594	24.5	48,636,052	15.8	112,316,438	36.6
	1909	244,700,293	151,011,436	61.7	60,825,552	24.9	47,009,663	19.6	42,276,221	17.3	93,688,867	38.3

<sup>1</sup> Includes Gary and Whiting, to avoid disclosure of individual operations.<sup>2</sup> 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. 1, 1910.



## MANUFACTURES—INDIANA.

19

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.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase over 1914. <sup>1</sup>			Amount, 1919.	Per cent of total for the state.	Increase over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
EVANSVILLE.					INDIANAPOLIS—Continued.				
Flour-mill and gristmill products.....	\$10,514,518	14.0	\$7,001,578	199.3	Clothing, men's.....	\$6,780,311	45.2	\$3,928,047	137.7
Furniture.....	8,605,189	16.4	5,230,535	155.0	Printing and publishing, newspapers and periodicals.....	6,332,766	33.0	2,895,585	84.2
Tobacco, cigars.....	6,267,501	62.3	3,880,690	162.6	Furniture.....	6,155,938	11.8	2,713,197	78.8
Stoves and ranges.....	1,540,177	19.8	962,250	166.5	Printing and publishing, book and job.....	5,238,539	48.8	2,252,174	75.4
Agricultural implements.....	1,520,534	4.8	804,554	112.4	Confectionery and ice cream.....	4,710,443	42.1	(2)	(2)
Bread and other bakery products.....	1,136,527	3.8	684,202	151.3	Butter.....	4,133,326	14.1	(2)	(2)
Carriage and wagon materials.....	1,115,037	31.7	(2)	(2)	Lumber and timber products.....	2,423,174	13.6	1,485,511	158.4
Clothing, men's and youths.....	930,693	6.2	611,160	191.3	Coffee, roasting and grinding.....	2,096,672	56.6	1,037,845	98.0
Printing and publishing, newspapers and periodicals.....	789,892	4.1	370,814	92.6	Bags, other than paper, not including bags made in textile mills.....				
Lumber, planing-mill products, not including planing mills connected with sawmills.....	739,412	5.2	(2)	(2)	Canning and preserving, fruits and vegetables.....				
Automobile bodies and parts.....					Cotton goods.....				
Brooms, from broom corn.....					Druggists' preparations.....				
Butter.....					Engines, steam, gas, and water.....	(2)	(2)	(2)	(2)
Carriages and wagons, including repairs.....					Gas, illuminating and heating.....				
Cars and general shop construction and repairs by steam-railroad companies.....					Glucose and starch.....				
Cotton goods.....					Iron and steel forgings, not made in steel works or rolling mills.....				
Electrical machinery, apparatus, and supplies.....					Rubber tires, tubes, and rubber goods, not elsewhere specified.....				
Engines, steam, gas, and water.....	(2)	(2)	(2)	(2)	Saws.....				
Food preparations, not elsewhere specified.....					Tinware, not elsewhere specified.....				
Glass.....									
Liquors, malt.....					SOUTH BEND.				
Mattresses and spring beds, not elsewhere specified.....					Foundry and machine-shop products.....	1,264,228	1.5	547,143	76.2
Pickles and sauces.....					Confectionery and ice cream.....	1,145,403	10.2	(2)	(2)
Plumbers' supplies, not elsewhere specified.....					Bread and other bakery products.....	908,647	3.2	550,522	135.0
Pottery, chinaware.....					Printing and publishing, newspapers and periodicals.....	767,800	4.0	310,677	68.0
Slaughtering and meat packing.....					Lumber, planing-mill products, not including planing mills connected with sawmills.....				
Structural ironwork, not made in steel works or rolling mills.....					Furniture, wood, other than rattan and willow.....	704,107	5.4	297,155	63.6
FORT WAYNE.					Printing and publishing, book and job.....	647,781	1.2	(2)	(2)
Foundry and machine-shop products.....	3,963,115	4.6	-2,155,870	-35.2	Tobacco, cigars.....	572,174	5.3	262,610	84.8
Bread and other bakery products.....	3,862,040	12.0	2,500,886	183.7	Agricultural implements.....	523,357	5.2	103,263	24.6
Patent medicines and compounds.....	933,599	20.8	510,150	120.5	Automobile bodies and parts.....				
Confectionery and ice cream.....	890,256	8.0	(2)	(2)	Butter.....				
Printing and publishing, book and job.....	808,875	8.1	390,468	81.0	Clothing, men's.....				
Clothing, women's.....	803,400	23.6	(2)	(2)	Electrical machinery, apparatus, and supplies.....				
Lumber and timber products.....	523,806	2.0	243,666	87.0	Gas, illuminating and heating.....				
Lumber, planing-mill products, not including planing mills connected with sawmills.....					Knit goods.....				
Boxes, paper and other, not elsewhere specified.....	505,428	3.6	40,042	10.0	Machine tools.....				
Butter.....					Roofing materials.....	(2)	(2)	(2)	(2)
Cars and general shop construction and repairs by steam-railroad companies.....					Rubber tires, tubes, and rubber goods, not elsewhere specified.....				
Electrical machinery, apparatus, and supplies.....					Sewing-machine cases.....				
Flour-mill and gristmill products.....					Shirts.....				
Gas, illuminating and heating.....					Stoves and ranges.....				
Gas machines.....					Toys and games.....				
Gloves and mittens, cloth, not including gloves made in textile mills.....	(2)	(2)	(2)	(2)	Varnishes.....				
Iron and steel, steel works and rolling mills.....					Watches.....				
Knit goods.....					Woolen goods.....				
Liquors, malt.....					TERRE HAUTE.				
Musical instruments, pianos.....					Bread and other bakery products.....	2,020,958	0.8	1,149,377	130.5
Printing and publishing, newspapers and periodicals.....					Foundry and machine-shop products.....	1,802,513	2.2	837,905	81.8
Pumps, not including power pumps.....					Butter.....	1,371,573	4.9	(2)	(2)
Pumps, steam.....					Clothing, men's and youths.....	1,351,979	9.0	318,108	30.8
Slaughtering and meat packing.....					Printing and publishing, newspapers and periodicals.....	850,593	4.5	438,420	104.0
Soap.....					Copper, tin, and sheet-iron work.....	748,745	16.3	(2)	(2)
Washing machines and clothes wringers.....					Confectionery and ice cream.....	748,050	6.7	356,805	91.2
INDIANAPOLIS.					Carriage and wagon materials.....				
Slaughtering and meat packing.....	104,805,746	78.2	67,025,707	177.4	Cars and general shop construction and repairs by steam-railroad companies.....				
Automobiles.....	59,730,346	55.0	47,867,323	403.3	Cars, steam-railroad, not including operations of railroad companies.....				
Foundry and machine-shop products.....	24,242,163	27.6	15,489,845	177.0	Coffee, roasting and grinding.....	(2)	(2)	(2)	(2)
Flour-mill and gristmill products.....	14,573,978	19.4	6,602,649	82.8	Flour-mill and gristmill products.....				
Automobile bodies and parts.....	13,563,140	18.0	12,739,072	1,545.9	Iron and steel, steel works and rolling mills.....				
Electrical machinery, apparatus, and supplies.....					Paper and wood pulp.....				
Bread and other bakery products.....	8,591,162	20.7	7,098,380	862.3	Patent medicines and compounds.....				
Cars and general shop construction and repairs by steam-railroad companies.....	7,713,218	25.7	4,485,707	139.0	Pickles, preserves, and sauces.....				
	6,838,631	11.2	5,007,603	292.8	Slaughtering and meat packing.....				

<sup>1</sup> A minus sign (—) denotes decrease.<sup>2</sup> Figures can not be shown without disclosing individual operations.<sup>3</sup> Includes "iron and steel, welding."



## MANUFACTURES—INDIANA.

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

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	41,162	22,717	12,399	1,095,912	709,703	633,377	100.0	100.0	100.0
Owned.....	4,770	5,782	6,630	720,879	507,100	566,125	65.8	71.5	89.4
Steam.....	3,609	4,468	5,197	521,446	430,504	449,127	47.6	60.7	70.9
Engines.....	3,402	(2)	(2)	387,321	(2)	(2)	33.5	(2)	(2)
Turbines.....	207	(2)	(2)	154,125	(2)	(2)	14.1	(2)	(2)
Internal-combustion engines.....	1,003	1,132	1,195	189,271	96,691	109,105	17.3	9.4	17.2
Water.....	158	182	238	10,182	9,905	7,893	0.9	1.4	1.3
Water wheels and turbines.....	153	158	212	9,204	8,363	7,446	0.8	1.2	1.2
Water motors.....	5	24	26	958	1,542	447	0.1	0.2	0.1
Rented.....	36,392	16,935	5,769	375,033	202,603	67,252	34.2	28.5	10.6
Electric.....	36,392	16,935	5,769	373,689	200,882	65,548	34.1	28.3	10.3
Other.....				1,344	1,721	1,704	0.1	0.2	0.3
Electric.....	52,973	27,489	11,916	652,754	450,357	233,193	100.0	100.0	100.0
Rented.....	36,392	16,935	5,769	373,689	200,882	65,548	57.2	44.6	28.1
Generated by establishments reporting.....	16,581	10,554	6,147	279,065	249,475	167,645	42.8	55.4	71.9

<sup>1</sup> Figures for horsepower include for 1909 the amounts reported under the head of "Other" owned power.

<sup>2</sup> Not reported separately.

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.. 31,099	13,577,580	2,693,061	2,721,596	60,225	2,308,679
	1914.. 16,761	10,274,828	1,172,542	772,316	(1)	1,489,430
	85.5	32.1	120.7	261.4		55.0
Per cent of increase.....						
Agricultural implements.....	34	56,328	15,526	63,664	9,429	1,610
Automobile bodies and parts.....	32	131,930	1,137	156,206	9,914	82,786
Automobiles.....	100	73,285	6,371	12,671	13,503	620,403
Bread and other bakery products.....	2,038	21,352	23,679	1,502	3,054	107,659
Brick and tile; terra-cotta, and fire-clay products.....		506,237	1,002	6,036	583	7,600
Cars and general shop construction and repairs by steam-railroad companies.....	936	447,922	5,824	45,327	751	206
Cars, steam-railroad, not including operations of railroad companies.....		153,949	12,406	135,204	682	1,894
Cement.....		523,653	275			
Coke, not including gas-house coke.....		4,586,029	8,979			
Electrical machinery, apparatus, and supplies.....	1,139	53,412	528	7,173	369	116,249
Flour-mill and gristmill products.....	132	150,958	1,733	3,154	1,956	10,445
Foundry and machine-shop products.....	390	182,245	56,397	38,688	5,150	50,022
Furniture.....	589	103,143	311	363	519	1,568
Gas, illuminating and heating.....	2,697	830,850	48,769	182,348	240	234,574
Glass.....	698	523,726	2,486	217,323	49	457,551
Ice, manufactured.....		201,988		211	103	
Iron and steel, steel works and rolling mills.....	475	1,753,150	17,008	787,265	921	28,034
Iron and steel forgings, not made in steel works or rolling mills.....		37,145	915	105,119	112	4,000
Paper and wood pulp.....	2,205	341,671	476		5	
Petroleum, refining.....		1,082,882	8,027	802,311		114
Printing and publishing, newspapers and periodicals.....	206	8,482	109	324	680	43,988
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	150	84,849	75		6,000	
Slaughtering and meat packing.....		178,222			128	21,542
Smelting and refining, lead.....		17,560	2,091	20,830	80	1,869
Smelting and refining, zinc.....	5,824	62,499	2,038			
Smelting and refining, not from the ore.....	8,989	3,974	1,830	3,366		
Structural ironwork, not made in steel works or rolling mills.....	54	46,094	2,598	34,738	52	4,509
All other industries.....	4,321	1,413,745	2,471,271	97,673	14,945	498,550
Total for cities <sup>1</sup> .....	17,927	4,520,129	368,309	1,166,586	50,081	1,544,927
ANDERSON.....	710	162,058	5,912	3,756	690	109,523
BLOOMINGTON.....		13,329	1,180	3,083	1	734
CLINTON.....		14,580	156	52	49	
CRAWFORDSVILLE.....	19	29,688	740		17	1,202
EAST CHICAGO.....	9,319	831,013	194,467	148,377	1,425	20,904
ELKHART.....	1,405	83,573	2,761	5,593	479	13,681
ELWOOD.....		107,044	378	704	3	38,449
EVANSVILLE.....	715	216,530	11,733	3,742	228	68,342
FORT WAYNE.....	1,691	200,196	20,057	59,945	734	109,167
FRANKFORT.....	714	11,966	1,505	6,510	141	2,480
HAMMOND.....	49	93,306	9,935	118,408	279	4,016
HUNTINGTON.....	5	17,822	1,291	2,321	11	2,837
INDIANAPOLIS.....	1,517	1,829,431	25,928	108,675	12,417	248,844
JEFFERSONVILLE.....		29,612	655	19,024	107	372
KOKOMO.....	802	241,281	11,026	154,806	3,553	61,292
LA PORTE.....	20	45,996	4,631	9,742	6,982	5,782
LAFAYETTE.....	26	71,840	965	7,816	278	2,182
LOGANSPOUT.....		53,886	988	3,945	178	1,308
MARION.....	49	149,320	7,157	36,197	87	212,741
MICHIGAN CITY.....	3	74,995	11,459	39,211	30	6,714

<sup>1</sup> Included in figures for fuel oils.

<sup>2</sup> Excludes Gary and Whiting, to avoid disclosure of individual operations.



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

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, 2,400 pounds).	Bituminous (tons, 2,000 pounds).				
MISHAWAKA.....	47	72,635	5,044	1,617	331	251
MUNCIE.....	156	113,761	5,734	179,978	3,010	501,977
NEW ALBANY.....	10	22,607	731	405	55	1,382
NEW CASTLE.....	.....	48,824	550	107,179	6,977	12,418
PERU.....	127	12,512	142	556	203	575
RICHMOND.....	48	44,558	5,014	1,986	2,251	57,512
SOUTH BEND.....	276	135,608	24,088	129,310	8,617	22,151
TWEE HAUTE.....	14	200,478	6,280	13,027	865	30,242
VINCENNES.....	205	80,005	6,002	41	23	3,850

## SPECIAL STATISTICS.

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

Iron and steel, blast furnaces and steel works and rolling mills.—The pig-iron furnaces of the state are operated in connection with steel furnaces, and over 95 per cent of the pig iron consumed by the steel furnaces was produced in the blast-furnace department of the same industrial plant.

Blast furnaces only (Table 19).—This table shows the statistics for the pig-iron industry of the state in 1919, which was represented by three establishments. At prior censuses it was not reported separately. The state ranked fifth among the states in the industry.

TABLE 19.—BLAST FURNACES, PIG-IRON INDUSTRY: 1919.

	Quantity.	Amount.
Materials, total cost.....	.....	\$40,022,880
Iron ore.....gross tons..	4,156,579	20,001,389
Scrap, and mill cinder.....gross tons..	285,205	1,155,397
Fluxing material.....net tons..	922,106	948,774
Fuel for smelting, coke.....net tons..	2,366,334	10,101,338
All other materials, including fuel for power.....	.....	1,816,982
Products, total value.....	.....	52,533,807
Pig iron.....gross tons..	2,292,562	51,591,407
Basic.....gross tons..	2,095,431	.....
Other grades.....gross tons..	197,131	.....
Delivered in molten condition.....gross tons..	1,796,527	.....
Machine cast, etc.....gross tons..	496,035	.....
All other products.....	.....	942,340

Steel works and rolling mills (Table 20).—This table shows the principal statistics concerning materials and products for 1919, in comparison with 1914 and 1909.

The leading rolled products in 1919 in order of tonnage were (1) plates and sheets; (2) bars, steel and iron; (3) rails; and (4) structural shapes.

The state ranked third in this industry in 1919, being exceeded only by Pennsylvania and Ohio; fourth in 1914 and fifth in 1909.

TABLE 20.—STEEL WORKS AND ROLLING MILLS: 1919, 1914, AND 1909.

	1919	1914	1909
Number of establishments.....	23	19	17
Materials, total cost.....	\$113,194,270	\$37,056,547	\$26,098,759
Pig iron and ferroalloys:			
Tons (gross).....	2,144,846	1,091,632	448,786
Cost.....	\$50,607,142	\$14,428,504	\$7,154,672
Scrap, purchased:			
Tons (gross).....	554,561	516,078	478,004
Cost.....	\$10,148,850	\$5,084,070	\$6,212,888
Steel, crude, and semifinished:			
Tons (gross).....	654,313	454,631	271,716
Cost.....	\$20,896,938	\$7,553,200	\$6,648,236
All other materials, including fuel and rent of power, cost.....	\$25,481,349	\$9,390,773	\$6,082,963
Products, total value.....	\$199,273,518	\$58,882,522	\$38,651,848
Rolled, forged, and other classified steel and iron products:			
Tons (gross).....	3,076,015	1,854,050	1,110,498
Value.....	\$192,301,897	\$54,024,126	\$35,526,349
All other products, including value added to rolling-mill products by further manufacture, value.....	\$6,971,621	\$4,858,396	\$3,126,499

Slaughtering and meat packing (Table 21).—In this table statistics for the slaughtering and meat-packing industry are presented for the census years 1919, 1914, and 1909, giving the number and cost of the most important classes of animals slaughtered; the cost of all other materials, which includes that for goats and kids, poultry, dressed meat purchased for curing and canning, cottonseed oil for making lard compounds and substitutes, butter and whole milk for making oleomargarine, materials for making ice, refrigeration, curing materials, seasoning, containers, fuel, rent of power, mill supplies, and freight; and the kind, quantity, and value of the principal products that can be shown without disclosing individual operations. The value of these and minor and auxiliary products are grouped under "All other products" and include beef, pickled and other cured, canned meat, canned sausage, lard and oleo oil, oleo stock, oleo and lard stearin, oleomargarine, hoofs, horns, horntips, strips, and waste, skins other than cattle, calf, and sheep, ice, and serum.

The production increase, which is indicated by the number of animals slaughtered in 1919 and 1914, was



296,221. The only class which decreased in number was sheep and lambs.

The cost of animals slaughtered in this period increased \$62,155,574, or 144.5 per cent; that for "All other materials" \$13,272,009, or 409.8 per cent. The very large increase in this item was largely due to the increase in cost of dressed meat purchased for curing and canning.

TABLE 21.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$121,689,694	\$46,262,111	\$41,839,279
Animals slaughtered, cost.....	\$105,178,453	\$43,022,879	\$36,871,202
Beeves—			
Number.....	271,004	200,180	252,697
Cost.....	\$22,844,736	\$12,432,732	\$10,702,274
Calves—			
Number.....	65,557	61,500	60,578
Cost.....	\$1,427,568	\$767,011	\$615,967
Sheep and lambs—			
Number.....	24,572	66,689	58,435
Cost.....	\$249,854	\$361,458	\$276,043
Hogs—			
Number.....	2,104,268	1,840,811	1,751,454
Cost.....	\$80,656,295	\$29,461,678	\$25,277,218
All other materials, cost.....	\$16,511,241	\$3,239,232	\$5,068,077
<b>PRODUCTS.</b>			
Total value.....	\$134,028,726	\$51,021,537	\$47,230,243
Fresh meat, value.....	\$47,916,992	\$23,328,661	\$19,352,261
Beef—			
Pounds.....	101,605,575	91,435,251	119,685,578
Value.....	\$18,514,791	\$10,532,894	\$9,630,214
Veal—			
Pounds.....	6,004,165	5,345,353	5,505,181
Value.....	\$1,299,709	\$731,375	\$603,540
Mutton and lamb—			
Pounds.....	953,588	2,634,954	2,310,824
Value.....	\$210,141	\$342,778	\$230,500
Pork—			
Pounds.....	98,772,828	93,434,549	79,377,563
Value.....	\$26,287,082	\$11,549,830	\$8,974,150
Edible offal and other fresh meat—			
Pounds.....	13,132,313	2,940,805	207,516
Value.....	\$1,634,669	\$171,784	\$13,848
Pork, pickled and other cured:			
Pounds.....	163,511,706	124,924,957	148,474,672
Value.....	\$49,810,459	\$15,495,892	\$17,242,240
Sausage:			
Pounds.....	17,662,551	15,895,177	15,754,885
Value.....	\$3,655,176	\$1,915,995	\$1,602,914
Lard:			
Pounds.....	51,452,324	46,374,440	46,901,294
Value.....	\$15,241,920	\$4,902,438	\$4,943,363
Lard compounds and substitutes:			
Pounds.....	1,803,269	(1)	(2)
Value.....	\$454,955	(1)	(2)
Tallow:			
Pounds.....	4,597,957	5,616,093	5,320,977
Value.....	\$627,389	\$425,818	\$472,624
Grease and soap stock:			
Pounds.....	4,926,368	(1)	(2)
Value.....	\$623,325	(1)	(2)
Casings:			
Pounds.....	2,483,121	633,157	(2)
Value.....	\$404,856	\$129,462	(2)
Fertilizers and fertilizer materials:			
Tons.....	8,487	8,501	7,389
Value.....	\$575,140	\$204,707	\$160,316
Hides and pelts:			
Cattle—			
Number.....	271,004	200,180	
Pounds.....	13,178,091	10,306,224	
Value.....	\$4,480,104	\$1,834,156	302,076
Calf—			
Number.....	58,039	56,850	14,209,481
Pounds.....	510,433	699,842	\$1,847,702
Value.....	\$275,741	\$138,978	
Sheep—			
Number.....	24,333	66,541	58,367
Value.....	\$59,363	\$72,017	\$71,092
Hair, hog and cattle:			
Pounds.....	1,402,207	(2)	(2)
Value.....	\$70,396	(2)	(2)
All other products, value.....	\$9,832,910	\$2,573,413	\$1,537,731

<sup>1</sup> Included in "All other products," to avoid disclosure of individual operations.

<sup>2</sup> Not reported separately.

The total value of products increased 162.7 per cent in 1919 as compared with 1914, while the pro-

duction of fresh and cured meat, including canned meat and sausage, increased only 19.3 per cent.

This state ranked ninth in 1919 in value of products in the slaughtering and meat-packing industry in the United States.

**Automobiles, including bodies and parts (Table 22).**—This table shows the number and value of the several classes of automobiles manufactured, as reported at the censuses of 1919, 1914, and 1909. During the five-year period 1914–1919, there was an increase of \$149,675,775, or 509.3 per cent, in the total value of products. The number of pleasure vehicles increased 47,434, or 316.9 per cent, and their value \$58,304,295, or 297.6 per cent. Business vehicles increased in number by 3,280, or 683.3 per cent, and in value \$5,810,320, or 677.9 per cent. The value of products, other than complete machines, consisting largely of bodies and parts and of repair work, increased \$85,561,160, or 957.1 per cent.

TABLE 22.—AUTOMOBILES, INCLUDING BODIES AND PARTS: 1919, 1914, AND 1909.

PRODUCT.	1919		1914		1909	
	Num-ber.	Value.	Num-ber.	Value.	Num-ber.	Value.
Total value.....		\$179,064,863		\$29,389,088		\$23,764,070
Automobiles, total <sup>1</sup> .....	66,162	\$4,564,021	15,448	\$20,449,406	17,253	\$17,604,936
Pleasure vehicles.....	62,402	\$7,896,611	14,068	\$19,592,316	17,081	\$17,210,854
Touring cars.....	49,740	\$6,976,271	13,034	\$16,574,132	6,838	\$10,710,289
Closed cars.....	6,325	\$9,728,908	503	\$1,071,392	439	\$772,401
Roadsters, run-abouts, and all others.....	6,337	\$7,191,432	1,431	\$1,946,792	9,804	\$5,728,164
Business vehicles.....	3,760	\$6,667,410	480	\$857,090	172	\$394,082
All other products, including bodies and parts, and repairs.....		\$4,500,842		\$8,939,682		\$6,159,134

<sup>1</sup> In addition, 306 automobiles valued at \$39,841 in 1919 and 225 automobiles valued at \$119,525 in 1909, were reported by establishments engaged primarily in the manufacture of products other than automobiles.

**Flour-mill and gristmill products (Table 23).**—This table shows the kinds, quantities, and values of the different grains ground in these mills during 1919, 1914, and 1909.

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

	1919	1914	1909
Total value.....	\$75,111,435	\$37,488,223	\$40,541,422
Wheat flour:			
Barrels.....	4,305,436	4,526,879	4,794,847
Value.....	\$47,088,134	\$21,183,688	\$25,316,671
Rye flour:			
Barrels.....	30,698	6,414	1,770
Value.....	\$330,026	\$30,385	\$7,027
Corn meal and corn flour:			
Barrels.....	512,179	984,239	855,409
Value.....	\$4,451,959	\$3,030,308	\$2,483,265
Buckwheat flour:			
Pounds.....	757,616	818,423	1,446,534
Value.....	\$50,820	\$25,175	\$36,480
Bran and middlings:			
Tons.....	165,615	167,460	
Value.....	\$7,995,893	\$3,730,324	388,022
Feed and offal:			
Tons.....	179,555	170,167	\$8,840,647
Value.....	\$10,602,954	\$4,682,497	
Hominy and grits:			
Pounds.....	93,956,630	292,131,101	256,678,796
Value.....	\$3,222,770	\$4,620,892	\$3,758,367
All other cereal products, value.....	\$947,855	\$18,995	\$1,048
All other products, value.....	\$415,015	\$165,959	\$98,917



Wheat flour was the product of chief value in 1919 as it was in 1914, forming 62.7 per cent and 56.5 per cent, respectively, of the total value of all products of the industry in the state. The total value of products for the industry increased \$37,623,212, or 100.4 per cent, during the five-year period. As illustrative of the high prices of commodities in 1919, as compared with 1914, the quantity of wheat flour decreased 221,443 barrels, or 4.9 per cent, while the value showed an increase of \$25,904,446, or 122.3 per cent.

Agricultural implements (Table 24).—This table shows the value of the principal groups of agricultural implements manufactured in the state during the years 1919, 1914, 1909, and 1904.

Indiana ranked third in 1919 and fifth in 1914 in the manufacture of agricultural implements in the United States. The total value of products of this industry increased \$19,032,272, or 148.8 per cent, for the five-year period 1914–1919. All classes of implements show an increase in value of products from 1914 to 1919, excepting harvesting implements, which show a slight decrease. Plows and cultivators constituted the principal class shown separately at each census. Planters and seeders and seed separators are combined for each census, not only for comparative purposes, but also to avoid the possibility of disclosing the operations of individual establishments.

TABLE 24.—AGRICULTURAL IMPLEMENTS: 1919, 1914, 1909, AND 1904.

	1919	1914	1909	1904
Total value.....	\$31,823,733	\$12,791,401	\$13,009,824	\$8,060,575
Plows and cultivators.....	12,415,810	4,447,550	4,600,748	3,346,095
Planters and seeders and seed separators.....	6,382,827	3,150,422	4,248,552	1,412,022
Harvesting implements.....	295,430	382,040	154,878	138,533
All other agricultural implements, including parts.....	5,412,518	2,732,278	4,659,046	3,162,725
All other products, including repair work.....	7,317,148	2,078,271		

Glass (Table 25).—This table shows the value of the different classes of glass products for the years 1919, 1914, and 1909.

Bottles and jars was the product of chief value in 1919 as in 1914, forming 59.9 per cent and 61.5 per cent, respectively, of the total value of all products of the industry in the state. The total value of products for the industry increased \$15,225,280, or 102.3 per cent.

TABLE 25.—GLASS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$30,106,652	\$14,881,372	\$11,593,004
Building glass.....	5,485,490	2,356,046	1,610,092
Pressed and blown glass.....	6,656,007	2,926,296	2,774,128
Bottles and jars.....	17,126,052	9,155,103	6,982,378
All other products.....	839,103	442,967	220,490

Butter, cheese, and condensed milk (Table 26).—This table shows the quantities and values of the various products of the butter, cheese, and condensed-milk industry in Indiana for 1919, 1914, and 1909.

Butter was the product of chief value in 1919 as in 1914, forming 72.8 per cent and 81.2 per cent, respectively, of the total value of all products of the industry in the state. The total value of products for the industry increased \$23,717,094, or 268.8 per cent, in 1919 as compared with 1914.

TABLE 26.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$32,541,336	\$8,824,242	\$3,958,600
Butter:			
Pounds.....	42,180,894	25,637,452	11,712,450
Value.....	\$23,075,474	\$7,108,947	\$3,301,014
Packed solid—			
Pounds.....	24,567,204	14,549,112	8,170,531
Value.....	\$13,584,345	\$3,937,543	\$2,270,029
Prints or rolls—			
Pounds.....	17,619,690	11,088,340	3,541,919
Value.....	\$10,091,120	\$3,231,404	\$1,021,985
Cheese:			
Pounds.....	269,094	354,702	424,597
Value.....	\$63,108	\$20,227	\$61,503
Condensed and evaporated milk:			
Pounds.....	32,470,141		
Value.....	\$3,608,035	( <sup>2</sup> )	( <sup>2</sup> )
Cream sold:			
Pounds.....	5,815,114	2,450,812	908,026
Value.....	\$1,060,802	\$250,634	\$24,916
All other butter, cheese, and condensed-milk factory products, value.....	\$2,527,640	\$1,320,483	\$377,109
All other products, value.....	\$1,606,277	\$48,061	\$124,058

<sup>1</sup> In addition, in 1919, butter valued at \$10,022 was manufactured in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

<sup>2</sup> Included in "All other butter, cheese, and condensed-milk factory products."

Printing and publishing (Table 27).—This table gives the number and aggregate circulation per issue of all newspapers and periodicals reported as published in Indiana in the census years 1919, 1914, and 1909.

Although the total number of publications decreased in Indiana in 1919, the aggregate circulation per issue increased 1,040,991, or 23.3 per cent, during the five-year period from 1914 to 1919, and 2,645,553, or 92.6 per cent, during the decade.

The decrease shown in number of dailies is greater for the later, than for the earlier five-year period. The daily circulation increased 132,518, or 17 per cent, from 1914 to 1919, and 284,362, or 45.5 per cent, for the decade.

TABLE 27.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	668	775	799	5,501,726	4,400,735	2,850,173
Daily.....	138	160	172	909,953	777,435	625,591
Sunday.....	18	18	20	276,880	254,126	205,176
Semiweekly <sup>1</sup> .....	18	29	30	22,571	40,176	51,978
Weekly.....	407	485	517	1,495,279	1,201,735	781,806
Monthly <sup>2</sup> .....	75	66	66	2,642,528	1,973,186	1,170,312
Quarterly <sup>3</sup> .....	12	17	4	154,515	124,077	20,250

<sup>1</sup> Includes in 1919, 1 triweekly; in 1914, 2 triweeklies, and in 1909, 1 triweekly.

<sup>2</sup> Includes in 1919, 7 semimonthlies; in 1914 and 1909, 4 semimonthlies.

<sup>3</sup> Includes in 1914, 4 bimonthlies, and in 1909, 1 bimonthly.



Of the dailies reported for 1919, those published in the afternoon numbered 107 with a circulation of 597,614, which is 65.7 per cent of the total daily circulation, and an increase of 80,049, or 15.5 per cent, over the figures for 1914.

In 1919 the foreign-language publications numbered 13. Of these, 7 were German; 2 were German and English; 1 was in English, Italian, and Slovak; 1 was Hungarian; and 2 were in Polish. Of the German publications, 1 was an afternoon daily, 2 were weeklies, 2 were monthlies, 1 was a semimonthly, and 1 was a quarterly.

**Canning and preserving (Table 28).**—The quantities and values of the various products of this industry, for 1919, 1914, and 1909, are shown in this table. The case, which is used as the unit for measuring the quantities of canned products, consists of 24 No. 2 size cans for beans, corn, and peas, and 24 No. 3 standard size cans for hominy, kraut, pumpkin, tomatoes, and other unspecified products.

TABLE 28.—CANNING AND PRESERVING: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$27,823,343	\$13,866,383	\$8,758,343
Canned fruits and vegetables.....	\$16,582,957	\$8,095,599	\$6,199,194
Pickles, preserves, and sauces.....	\$8,924,581	\$5,490,134	\$2,026,909
Canned vegetables, value.....	\$14,399,261	\$8,095,599	\$6,199,194
Beans—			
Cases.....	2,372,485	1,570,150	822,508
Value.....	\$6,202,927	\$2,275,118	\$2,110,648
Tomatoes—			
Cases.....	902,852	1,165,967	916,755
Value.....	\$2,431,166	\$1,800,102	\$1,469,219
Tomato pulp—			
Cases.....	258,799	(*)	(*)
Value.....	\$1,675,834	(*)	(*)
Corn—			
Cases.....	595,136	668,443	520,401
Value.....	\$1,493,994	\$943,641	\$679,446
Peas—			
Cases.....	357,686	434,411	521,764
Value.....	\$929,253	\$620,357	\$753,527
Hominy—			
Cases.....	368,758	456,591	(*)
Value.....	\$906,848	\$452,927	(*)
Tomato paste—			
Cases.....	33,332	(*)	(*)
Value.....	\$358,592	(*)	(*)
Pumpkin—			
Cases.....	109,004	294,881	119,965
Value.....	\$230,721	\$342,929	\$139,738
Kraut—			
Cases.....	87,219	359,202	(*)
Value.....	\$201,236	\$433,296	(*)
All other—			
Cases.....	28,941	813,847	869,109
Value.....	\$75,290	\$1,227,209	\$1,040,616
Canned fruit:			
Cases.....	867,159	(*)	(*)
Value.....	\$2,183,096	(*)	(*)
Blackberries—			
Cases.....	12,044	(*)	(*)
Value.....	\$28,228	(*)	(*)
All other—			
Cases.....	855,115	(*)	(*)
Value.....	\$2,155,468	(*)	(*)
Pickles, preserves, and sauces, value...	\$8,924,581	\$5,490,134	\$2,026,909
All other products, value.....	\$2,315,810	\$280,680	\$532,240

\* Does not include 616,562 cases of canned vegetables and soups, valued at \$1,603,116, and of pickles, preserves, and sauces, valued at \$99,572 in 1919; 399,378 cases of canned vegetables and soups, valued at \$619,971, and of pickles, preserves, and sauces, valued at \$60,927 in 1914; and of pickles, preserves, and sauces, valued at \$75,755 in 1909; reported by establishments classified as engaged in other industries.

\* Reported in "All other products" in 1914 and 1909.

Canned vegetables was the product of chief value in 1919 as in 1914, forming 51.7 per cent and 58.4 per cent, respectively, of the total value of products of the industry in the state. Measured by value, the most important products in 1919 were canned beans

and canned tomatoes, forming 43.1 per cent and 16.9 per cent, respectively, of the total for vegetables. The total value of the industry increased \$13,956,965, or 100.7 per cent, during the five-year period 1914-1919.

**Lumber and timber products (Table 29).**—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. The production of lumber has been decreasing in Indiana for a number of years, the decrease since 1909 being 273,931,000 feet, or 49.2 per cent. The output of lath and shingles decreased in even greater proportions. In 1919 this state led in the production of beech lumber, producing 15.9 per cent of the total cut from this wood in the United States. Practically the entire output in 1919 was from hardwoods.

The lumber cut from the principal species in 1919 was reported as follows: Oak, 109,583,000 feet, or 38.8 per cent of the total cut from all species in the state; beech, 57,107,000 feet, or 20.2 per cent; maple, 33,396,000 feet, or 11.8 per cent; elm, 20,833,000 feet, or 7.4 per cent; and ash, 14,619,000 feet, or 5.2 per cent. Among other woods sawed into lumber in considerable quantities were hickory, yellow poplar, gum, walnut, sycamore, basswood, and cottonwood.

TABLE 29.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

PRODUCT.	QUANTITY <sup>1</sup> .		
	1919	1914	1909
Lumber.....M feet b. m.	282,487	298,571	556,418
Lath.....thousands..	155	(*)	3,600
Shingles.....thousands..	420	(*)	7,340

<sup>1</sup> The output of custom mills is included in 1919 and 1909, but not in 1914.

\* Not reported.

**Laundries (Table 30).**—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 30, however, summarizes the statistics for such laundries in the state for 1919 and 1914.

TABLE 30.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919
	1919	1914	
Number of establishments.....	158	174	-8.2
Persons engaged.....	4,328	4,307	0.5
Proprietors and firm members.....	153	170	-10.0
Salaried employees.....	607	387	56.8
Wage earners (average number).....	3,568	3,750	-4.9
Primary horsepower.....	5,200	4,739	11.0
Capital.....	\$3,629,011	\$2,295,353	58.1
Salaries and wages.....	2,643,921	1,903,576	38.9
Salaries.....	536,857	382,896	40.2
Wages.....	2,107,064	1,520,680	38.6
Paid for contract work.....	24,495	10,416	135.2
Rent and taxes.....	136,975	116,580	17.2
Cost of materials.....	1,556,505	709,337	119.4
Amount received for work done.....	5,588,748	3,697,112	51.2

<sup>1</sup> A minus sign (—) denotes decrease.

**Dyeing and cleaning (Table 31).**—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 31.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	101
Persons engaged.....	825
Proprietors and firm members.....	106
Salaried employees.....	120
Wage earners (average number).....	509
Primary horsepower.....	1,024
Capital.....	\$700,474
Salaries and wages.....	653,231
Salaries.....	138,316
Wages.....	514,915
Paid for contract work.....	8,958
Rent and taxes.....	92,849
Cost of materials.....	390,055
Amount received for work done.....	1,588,752

Custom sawmills and custom gristmills (Tables 32 and 33).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for custom mills were not collected in 1914. Tables 32 and 33, 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 all grain ground.

## GENERAL TABLES.

Table 34 gives, for 1919, 1914, and 1909, for selected industries in the state, and in Evansville, Fort Wayne, Indianapolis, South Bend, and Terre Haute, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products; and for 22 other cities of 10,000 inhabitants or more, similar data for all industries combined. Gary and Whiting are omitted to avoid the possibility of disclosing the operations of individual establishments.

TABLE 32.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	227	204	11.3
Persons engaged.....	403	594	-32.2
Proprietors and firm members.....	277	269	3.0
Salaried employees.....	1	—	—
Wage earners (average number).....	125	325	-61.5
Primary horsepower.....	5,293	4,208	23.2
Capital.....	\$333,705	\$237,931	40.3
Salaries and wages.....	82,621	77,588	6.4
Salaries.....	150	—	—
Wages.....	82,371	77,588	6.2
Rent and taxes.....	3,700	( <sup>2</sup> )	—
Cost of materials.....	13,411	1,838	629.7
Amount received for work done.....	230,540	220,437	4.6

<sup>1</sup> A minus sign (—) denotes decrease.<sup>2</sup> Figures not available.

TABLE 33.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	131	175	-25.1
Persons engaged.....	232	274	-15.3
Proprietors and firm members.....	130	216	-39.8
Salaried employees.....	30	5	—
Wage earners (average number).....	66	53	—
Primary horsepower.....	4,134	4,556	-9.3
Capital.....	\$1,441,720	\$428,879	236.2
Salaries and wages.....	62,680	22,852	174.3
Salaries.....	16,754	1,665	906.2
Wages.....	45,926	21,187	116.8
Rent and taxes.....	16,230	( <sup>2</sup> )	—
Cost of materials.....	1,515,593	679,818	122.9
Value of products.....	1,772,733	836,847	111.8

<sup>1</sup> A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.<sup>2</sup> Figures not available.<sup>3</sup> Includes estimate of all grain ground.

Table 35 presents, for 1919, for the state as a whole and for Evansville, Fort Wayne, Indianapolis, South Bend, and Terre Haute, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and for 24 other cities of 10,000 inhabitants or more, similar data for all industries combined. The cities of Gary and Whiting are excluded.



## MANUFACTURES—INDIANA.

TABLE 34.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	7,916	277,580	1,095,912	317,043	1,174,951	1,898,753	Coffins, burial cases, and undertakers' goods.	1919	22	806	1,404	656	2,063	3,948
	1914	8,022	197,503	709,703	119,258	423,857	730,795		1914	22	833	1,254	317	738	1,539
	1909	7,969	186,984	638,377	95,511	334,375	579,075		1909	19	669	1,249	313	701	1,448
Agricultural implements.....	1919	29	5,533	10,864	7,401	12,615	31,824	Confectionery and ice cream...	1919	235	1,713	4,053	1,237	7,213	11,195
	1914	33	3,991	10,892	2,556	3,487	12,791		1914	190	1,263	2,505	555	2,824	4,604
	1909	39	4,749	9,254	2,565	4,864	13,670	Cooperage and wooden goods, not elsewhere specified.	1919	37	557	1,555	493	1,474	2,544
Artificial stone products.....	1919	289	731	1,764	839	1,154	3,086		1914	44	830	2,114	427	1,453	2,283
	1914	335	733	1,803	424	668	1,755		1909	57	891	2,441	382	1,499	2,398
	1909	219	468	495	227	300	851	Copper, tin, and sheet-iron work. <sup>5</sup>	1919	179	2,073	2,685	2,123	4,677	9,835
Automobiles, including bodies and parts.	1919	172	25,773	39,481	29,853	117,767	179,065		1914	144	2,185	1,592	1,306	4,802	7,801
	1914	86	7,219	12,137	5,027	18,831	29,339		1909	140	2,121	1,637	1,065	3,431	5,763
	1909	67	6,797	5,813	4,131	14,995	23,764	Cotton goods <sup>6</sup> .....	1919	4	997	4,550	701	2,490	4,353
Boots and shoes <sup>1</sup> .....	1919	5	620	426	464	1,905	2,854		1914	4	961	4,015	365	1,134	1,797
	1914	6	360	423	184	776	1,278		1909	7	1,532	5,315	478	1,670	2,502
	1909	8	436	393	159	664	978	Cutlery and tools, not else- where specified.	1919	30	620	1,528	651	866	4,294
Boxes, paper and other, not elsewhere specified.	1919	21	1,562	1,541	1,181	4,406	8,406		1914	16	493	1,256	268	416	787
	1914	17	739	789	322	938	1,705		1909	24	572	1,733	305	403	933
	1909	13	550	351	179	422	782	Electrical machinery, appa- ratus, and supplies.	1919	47	11,756	32,611	11,160	20,810	41,594
Brass, bronze, and copper products.	1919	31	1,271	1,514	1,485	3,234	5,638		1914	41	4,075	6,426	2,423	3,931	8,879
	1914	21	562	1,166	421	802	1,561		1909	42	3,073	5,285	1,361	3,693	7,718
	1909	21	468	503	292	774	1,379	Fertilizers.....	1919	13	328	2,123	306	2,733	4,713
Bread and other bakery products.	1919	802	3,759	5,703	3,609	19,476	30,020		1914	14	193	1,293	95	747	1,136
	1914	825	3,188	3,794	1,936	7,234	12,464		1909	15	123	1,012	62	254	456
	1909	754	2,505	2,124	1,315	6,226	10,209	Flour-mill and gristmill prod- ucts.	1919	450	2,280	39,341	2,273	65,740	75,111
Brick and tile, terra-cotta, pottery, and other clay products. <sup>2</sup>	1919	162	4,432	22,111	4,447	4,268	12,646		1914	512	2,281	41,350	1,289	32,241	37,488
	1914	231	5,512	29,771	3,262	2,660	8,905		1909	563	2,298	38,502	1,216	35,002	40,541
	1909	342	5,974	24,970	3,025	2,195	7,685	Food preparations, not else- where specified.	1919	40	539	2,560	398	7,563	9,318
Brooms.....	1919	61	452	541	307	863	1,922		1914	37	199	1,341	112	1,924	2,373
	1914	48	324	290	131	454	750		1909	17	185	914	85	613	795
	1909	44	397	350	151	468	779	Foundry and machine-shop products. <sup>7</sup>	1919	502	28,143	74,159	33,366	61,066	132,905
Butter and condensed milk <sup>3</sup> ..	1919	99	1,658	3,904	1,464	27,974	32,518		1914	443	16,814	42,866	10,646	21,187	48,423
	1914	120	719	3,007	452	7,431	8,824		1909	415	15,809	29,108	8,857	18,619	39,884
	1909	132	488	1,858	262	3,196	3,959	Furniture <sup>8</sup> .....	1919	177	13,257	27,844	11,252	27,484	52,350
Canning and preserving <sup>4</sup> .....	1919	166	4,170	9,660	2,795	17,523	27,823		1914	197	10,803	24,584	5,561	10,879	21,412
	1914	141	4,422	7,208	1,874	8,813	13,866		1909	201	11,284	20,449	5,137	8,400	18,466
	1909	134	3,406	6,398	879	5,945	8,758	Gas and electric fixtures and lamps and reflectors.	1919	9	266	989	200	473	873
Carriages and sleds, children's.	1919	8	918	855	826	1,716	3,650		1914	13	383	806	226	421	1,002
	1914	5	517	472	277	589	1,239		1909	12	342	558	152	285	620
	1909	8	761	641	264	649	1,140	Gas, illuminating and heating.	1919	53	1,902	8,378	2,138	6,612	12,454
Carriages and wagons and materials.	1919	109	2,216	6,392	2,063	8,469	12,785		1914	60	1,668	3,707	958	2,611	6,398
	1914	193	7,306	15,257	4,386	10,725	21,569		1909	53	928	5,845	508	1,102	3,147
	1909	221	8,867	13,790	4,855	12,458	21,655	Glass.....	1919	35	9,350	18,977	9,013	13,155	30,107
Cars and general shop con- struction and repairs by electric-railroad companies.	1919	30	977	2,054	1,005	849	1,961		1914	41	9,390	16,048	5,735	6,905	14,881
	1914	32	763	398	482	311	876		1909	44	9,644	21,031	4,942	4,728	11,593
	1909	30	713	713	449	561	1,100	Ice, manufactured.....	1919	107	855	12,075	868	1,413	4,089
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	77	23,099	30,354	32,393	24,867	61,232		1914	106	926	11,663	553	638	2,029
	1914	49	14,398	18,021	10,113	9,382	20,588		1909	85	563	7,726	304	326	1,311
	1909	34	12,884	13,550	8,081	7,876	17,128	Iron and steel, steel works and rolling mills.	1919	23	22,362	278,832	41,294	113,194	199,274
Cars, steam-railroad, not in- cluding operations of rail- road companies.	1919	9	6,650	21,325	11,502	66,075	89,021		1914	19	11,106	88,724	9,620	37,057	58,883
	1914	10	5,800	13,171	3,981	13,711	21,570		1909	17	12,255	111,806	8,390	26,099	38,652
	1909	7	4,084	10,699	1,991	6,309	9,498	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919	6	1,150	4,117	1,239	3,432	5,296
Cement.....	1919	5	1,953	44,315	2,682	5,883	13,363		1914	5	473	2,242	352	907	1,485
	1914	7	2,354	43,048	1,355	4,993	10,107	Iron and steel, forgings, not made in steel works or roll- ing mills.	1919	5	972	2,668	1,374	2,401	6,359
	1909	11	2,318	28,191	1,280	4,159	7,022		1914	9	686	3,201	445	1,391	2,109
Clothing, men's, including shirts.	1919	51	5,471	2,447	3,327	16,155	23,906		1909	8	341	1,461	173	451	704
	1914	41	5,260	1,377	1,950	5,387	8,857	Knit goods.....	1919	8	2,675	1,786	2,220	5,615	9,802
	1909	42	4,073	784	1,305	4,652	8,029		1914	11	2,338	1,985	1,022	2,029	3,748
Clothing, women's.....	1919	26	1,200	274	662	1,914	3,397		1909	5	1,933	1,393	687	915	2,381
	1914	19	1,015	193	329	766	1,454	Leather goods <sup>9</sup> .....	1919	128	1,009	1,049	981	3,001	5,169
	1909	18	1,291	196	449	1,057	2,058		1914	162	1,061	1,713	598	2,182	3,521
Coffee, roasting and grinding	1919	24	187	595	160	2,796	3,711		1909	118	1,240	3,542	527	2,002	3,406
	1914	12	111	419	56	1,461	1,790								
	1909	9	124	251	48	1,458	1,846								

<sup>1</sup> Includes "boot and shoe cut stock" in 1909.<sup>2</sup> Includes "sand-lime brick."<sup>3</sup> Includes "cheese" in 1914 and 1909.<sup>4</sup> Includes "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces."<sup>5</sup> Includes "stamped and enameled ware" in all years; and "tinware" in 1914 and 1909.<sup>6</sup> Includes "cotton small wares" in 1909.<sup>7</sup> Includes "gas machines and gas and water meters"; "hardware"; "hardware saddlery"; "iron and steel, cast-iron pipe"; "iron and steel, tempering, and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings, and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks, portable"; "structural ironwork, not made in steel works or rolling mills" and "textile machinery and parts" in all years; "engines, steam, gas, and water"; and "pumps, steam and other," in 1919 and 1914; and "bells" in 1909.<sup>8</sup> Includes "refrigerators" in 1909.<sup>9</sup> Includes "saddlery and harness" and "trunks and valises."



## MANUFACTURES—INDIANA.

27

TABLE 34.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Contd.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of materi- als.	Value of prod- ucts.
					Expressed in thou- sands of dollars.	Expressed in thou- sands of dollars.	Expressed in thou- sands of dollars.						Wages.	Cost of materi- als.	Value of prod- ucts.
THE STATE--ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
Leather, tanned, curried, and finished.	1919	9	396	1,206	343	3,455	4,730	Roofing materials.....	1919	7	254	1,379	298	1,085	2,750
	1914	10	434	1,127	226	2,326	2,928		1914	7	147	835	90	716	1,001
	1909	10	398	1,028	205	1,713	2,311		1909	4	42	48	24	154	205
Liquors, malt.....	1919	13	759	8,388	839	1,725	3,959	Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	15	2,017	11,690	3,018	12,017	20,844
	1914	32	2,207	14,688	1,509	3,367	11,936		1914	9	1,499	5,884	839	4,265	6,393
	1909	37	1,594	11,882	1,019	1,989	8,313		1909	11	787	5,270	410	2,008	4,313
Lumber and timber prod- ucts. <sup>1</sup>	1919	748	7,381	44,742	6,638	18,940	35,125	Scales and balances.....	1919	5	91	70	63	89	310
	1914	913	7,641	45,253	4,015	11,601	21,034		1914	8	173	211	105	118	620
	1909	1,277	10,317	57,243	4,402	12,382	23,135		1909	8	206	200	103	208	877
Marble and stone work.....	1919	166	2,004	16,668	2,135	2,529	7,612	Slaughtering and meat pack- ing. <sup>2</sup>	1919	57	5,691	11,395	5,470	121,600	134,029
	1914	179	3,389	21,953	2,100	2,164	6,657		1914	65	4,481	9,844	2,497	40,262	51,022
	1909	200	3,283	17,143	1,943	1,769	5,756		1909	61	4,423	5,973	2,101	41,080	47,280
Mattresses and spring beds, not elsewhere specified.	1919	20	493	905	384	1,440	2,487	Soap.....	1919	10	540	1,247	532	3,071	5,678
	1914	24	301	469	149	473	938		1914	12	315	668	181	1,587	2,980
	1909	27	553	791	257	601	1,287		1909	11	126	366	54	562	813
Mineral and soda waters.....	1919	122	423	1,729	407	1,711	3,097	Stoves and hot-air furnaces...	1919	25	1,056	2,880	2,076	3,182	7,762
	1914	123	289	510	182	593	1,476		1914	27	1,481	2,887	996	1,670	3,593
	1909	107	235	361	120	261	659		1909	24	1,302	1,704	723	1,021	2,751
Musical instruments and ma- terials, not specified.	1919	14	1,337	825	1,229	1,101	3,148	Tobacco manufactures.....	1919	208	4,203	577	2,504	5,118	10,345
	1914	12	395	503	264	155	742		1914	418	3,659	810	1,568	2,287	5,510
	1909	9	390	216	208	108	610		1909	470	2,794	123	1,126	1,690	4,155
Musical instruments, pianos <sup>3</sup>	1919	8	1,432	2,184	1,579	3,376	6,978	Windmills.....	1919	4	402	1,885	338	886	1,556
	1914	12	1,585	3,220	1,039	1,612	3,866		1914	3	451	1,045	282	456	1,078
	1909	15	1,067	2,650	994	1,703	3,686		1909	4	498	577	297	718	1,304
Paint and varnish.....	1919	23	257	944	235	2,800	4,315	Wirework, not elsewhere spec- ified.	1919	21	632	1,462	570	2,600	4,209
	1914	22	178	793	123	922	1,481		1914	30	964	1,882	543	2,245	3,732
	1909	18	200	521	74	683	1,108		1909	31	680	1,182	314	2,842	3,161
Paper and wood pulp.....	1919	26	2,214	25,485	2,239	9,514	15,120	Wood preserving.....	1919	5	177	760	211	1,213	1,781
	1914	24	1,620	20,719	916	4,314	6,234		1914	6	202	560	120	608	1,010
	1909	27	1,501	18,382	754	3,497	5,202		1909	5	324	355	82	280	538
Paper goods, not elsewhere specified. <sup>4</sup>	1919	6	311	1,838	336	2,388	3,362	Wood, turned and carved....	1919	31	822	2,628	651	1,783	3,049
	1914	6	559	1,037	260	1,105	1,857		1914	30	630	2,090	381	742	1,295
	1909	8	719	835	256	1,224	1,887		1909	47	677	2,754	263	614	1,169
Patent medicines and com- pounds and druggists' prepa- rations. <sup>5</sup>	1919	118	1,877	1,618	1,125	6,105	14,636	Woolen goods.....	1919	11	948	1,800	725	3,320	4,542
	1914	156	864	998	415	2,095	5,740		1914	10	719	1,519	313	991	1,522
	1909	113	801	809	354	1,480	4,344		1909	11	776	1,078	263	1,056	1,570
Printing and publishing <sup>6</sup> ....	1919	865	6,772	9,557	6,741	10,109	30,612	All other industries.....	1919	1,044	37,340	212,680	43,919	250,580	394,854
	1914	922	6,140	7,078	3,094	6,019	17,117		1914	641	28,036	139,279	14,614	90,227	155,393
	1909	892	6,769	17,868	3,622	4,925	14,356		1909	541	18,700	101,081	9,022	60,699	113,008

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

EVANSVILLE..... All Industries.								EVANSVILLE—Con.							
	1919	299	12,520	25,007	10,708	44,140	70,230	Leather goods <sup>7</sup> .....	1919	7	70	47	59	213	351
	1914	297	10,333	24,102	5,168	18,411	31,427		1914	11	162	316	77	191	321
	1909	292	8,824	18,132	3,879	12,347	22,289		1909	12	198	284	63	198	357
Agricultural implements.....	1919	4	255	737	267	595	1,521	Lumber and timber products <sup>10</sup>	1919	11	347	1,634	270	669	1,371
	1914	5	240	765	138	267	716		1914	15	486	2,237	301	1,146	1,716
	1909	5	234	755	128	218	660		1909	16	549	2,660	284	818	1,443
Bread and other bakery prod- ucts.	1919	24	124	222	135	742	1,137	Marble and stone work, except slate.	1919	5	43	181	48	128	341
	1914	19	126	120	79	261	462		1914	6	44	178	35	79	174
	1909	10	119	103	57	319	487	Mineral and carbonated waters	1919	6	33	58	34	213	357
Clothing, men's and youths'...	1919	5	250	74	112	531	931		1914	5	35	44	26	118	186
	1914	4	100	57	34	253	320		1909	5	18	13	9	9	31
Confectionery.....	1919	6	16	7	9	53	91	Patent medicines and com- pounds and druggists' prepa- rations. <sup>4</sup>	1919	7	15	8	9	90	179
	1914	6	27	118	10	56	86		1914	10	15	12	6	35	73
	1909	6	88	2	23	81	142		1909	6	16	22	8	47	90
Copper, tin, and sheet-iron work.	1919	14	51	9	57	60	169	Printing and publishing.....	1919	16	267	348	282	349	1,209
	1914	22	84	10	46	84	188		1914	21	201	248	177	216	738
Flour-mill and gristmill prod- ucts.	1919	7	239	2,106	204	9,543	10,515		1909	27	254	296	165	152	600
	1914	8	105	1,955	95	3,040	3,513	Stoves and ranges.....	1919	4	369	624	488	487	1,540
	1909	8	97	1,645	64	2,816	3,182		1914	5	298	824	183	167	578
Foundry and machine-shop products. <sup>8</sup>	1919	18	1,291	2,130	1,347	3,634	6,267		1909	5	376	492	208	217	771
	1914	12	720	1,470	372	692	1,300	Tobacco, cigars.....	1919	22	2,661	478	1,449	3,265	6,268
	1909	12	375	659	204	338	701		1914	25	1,852	208	630	1,081	2,378
Furniture.....	1919	24	2,227	4,758	1,879	4,092	8,605	All other industries.....	1919	119	4,238	11,586	4,009	19,879	29,378
	1914	27	1,806	4,266	806	1,910	3,375		1914	95	3,922	11,274	2,153	8,815	15,304
	1909	26	1,458	2,997	633	1,205	2,520		1909	145	5,042	8,304	2,033	5,929	11,315

<sup>1</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with saw mills"; and "window and door screens and weather strips."

<sup>2</sup> Includes "musical instruments, organs," and "musical instruments, piano and organ materials," in 1909.

<sup>3</sup> Includes "envelopes" in 1909.

<sup>4</sup> Includes "perfumery and cosmetics."

<sup>5</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

<sup>6</sup> Includes "sawage, not made in slaughtering and meat-packing establishments" in 1909.

<sup>7</sup> Excludes Gary, to avoid disclosure of individual operations.

<sup>8</sup> Includes "plumbers' supplies, not elsewhere specified"; and "structural ironwork, not made in steel works or rolling mills," in all years; "engines, steam, gas, and water," in 1919 and 1914; and "hardware," and "hardware, saddlery," in 1919.

<sup>9</sup> Includes "saddlery and harness" in all years and "trunks and valises" in 1914 and 1909.

<sup>10</sup> Includes "boxes, wooden packing, except cigar boxes" and "lumber, planing-mill products, not including planing mills connected with sawmills."



TABLE 34.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Contd.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thou- sands of dollars.								Expressed in thou- sands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE, ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
<b>FORT WAYNE</b> .....	1919	247	16,344	43,431	17,435	37,908	76,713	<b>INDIANAPOLIS—Contd.</b>	1919	21	642	660	363	1,764	3,037
All industries.	1914	228	11,161	16,771	6,299	14,148	30,205	Confectionery.....	1914	14	500	594	168	983	1,513
	1909	230	10,298	15,063	5,023	11,415	23,687		1909	14	474	380	100	915	1,472
Bread and other bakery prod- ucts.	1919	26	507	784	498	2,119	3,862	Copper, tin, and sheet-iron	1919	25	166	104	187	509	928
	1914	18	352	302	188	819	1,361	work.	1914	20	230	175	184	718	1,121
	1909	15	269	247	145	631	1,021	Electrical machinery, appa- ratus, and supplies.	1919	16	1,764	4,577	1,638	4,381	8,591
Foundry and machine-shop products. <sup>1</sup>	1914	19	1,941	3,805	1,145	2,200	7,030		1914	7	307	804	214	360	893
	1909	20	1,880	3,661	889	1,813	4,878		1909	7	304	598	184	407	804
Lumber and timber products. <sup>2</sup>	1919	13	193	1,791	185	652	1,029	Flour-mill and gristmill prod- ucts.	1919	7	421	6,838	471	12,611	14,574
	1914	11	215	1,126	124	467	740		1914	8	403	6,135	271	7,111	7,971
	1909	13	354	1,500	175	769	1,263		1909	9	324	4,735	179	5,800	6,448
Marble and stone work.....	1919	8	27	108	33	37	117	Foundry and machine-shop products. <sup>4</sup>	1919	93	8,564	10,372	10,086	15,822	37,878
	1914	6	36	72	35	37	88		1914	89	4,104	7,960	2,640	4,343	10,845
	1909	6	51	90	33	36	91		1909	78	4,481	7,318	2,525	5,401	11,442
Patent medicines and com- pounds.	1919	8	101	55	102	292	934	Furniture.....	1919	27	1,746	2,909	1,509	3,222	6,156
	1914	9	16	40	9	110	423		1914	26	1,522	3,050	897	1,730	3,443
	1909	10	20	20	7	79	244		1909	32	1,633	2,189	852	1,322	2,942
Printing and publishing, book and job.	1919	16	254	178	285	362	869	Ice, manufactured.....	1919	12	213	3,312	231	402	1,075
	1914	17	201	211	117	200	478		1914	8	226	1,937	145	107	426
									1909	6	87	859	41	54	180
Tobacco, cigars.....	1919	26	148	6	153	202	495	Leather goods. <sup>5</sup> .....	1919	14	264	277	260	1,208	2,006
	1914	27	201	3	138	145	405		1914	7	169	199	106	414	665
	1909	32	198	.....	100	144	355		1909	8	313	199	137	602	961
All other industries.....	1919	129	13,894	37,108	14,822	32,025	63,599	Lumber and timber products. <sup>6</sup>	1919	42	858	5,499	815	2,309	4,710
	1914	121	8,199	11,212	4,643	10,150	19,680		1914	52	906	4,329	574	2,200	3,435
	1909	134	7,526	9,545	3,674	7,943	15,835		1909	44	978	3,925	544	1,944	3,233
<b>INDIANAPOLIS</b> .....	1919	1,004	49,977	102,741	52,410	266,754	398,667	Marble and stone work.....	1919	9	62	351	80	159	327
All industries.	1914	886	30,971	65,215	19,042	91,064	139,700		1914	7	90	470	69	111	248
	1909	853	31,736	50,622	16,507	84,037	126,313	Mineral and carbonated waters	1919	6	62	99	63	267	433
Artificial stone products.....	1919	12	59	173	66	162	359		1914	7	41	34	27	63	153
	1914	14	72	88	45	65	169		1909	5	31	35	16	48	100
	1909	17	57	39	32	39	167	Models and patterns, not in- cluding paper patterns.	1919	13	129	97	239	102	463
Automobiles, including bod- ies and parts.	1919	47	8,584	11,766	10,386	48,836	73,299		1914	6	30	25	26	4	54
	1914	30	2,673	5,779	1,916	8,184	12,693		1909	6	21	25	18	5	40
	1909	17	2,394	2,296	1,466	5,994	8,840	Optical goods.....	1919	7	250	175	214	390	885
Awnings, tents, and sails.....	1919	6	43	28	27	110	227		1914	4	32	19	24	34	123
	1914	5	64	40	36	102	201	Paints. <sup>7</sup> .....	1919	8	106	538	86	1,325	1,928
	1909	4	58	30	20	91	174		1914	8	83	461	56	455	638
Boxes, paper and other, not elsewhere specified.	1919	4	319	235	180	749	1,233		1909	9	148	338	45	370	592
	1914	4	184	270	70	173	324	Patent medicines and com- pounds and druggists' prepa- rations. <sup>8</sup>	1919	36	1,326	940	725	3,815	7,964
	1909	3	155	127	50	135	239		1914	32	498	625	227	1,315	3,227
Brass, bronze, and copper products.	1919	8	350	799	407	858	1,585		1909	34	549	497	244	959	2,301
	1914	5	235	863	166	870	689	Printing and publishing. <sup>9</sup> .....	1919	169	1,956	2,995	2,176	3,991	12,027
Bread and other bakery prod- ucts.	1919	88	1,100	1,502	861	4,744	7,713		1914	152	1,681	2,242	1,308	1,855	6,806
	1914	83	819	1,238	470	1,805	3,228	Slaughtering and meat pack- ing. <sup>10</sup>	1919	13	4,664	8,410	4,384	95,990	104,896
	1909	78	596	587	288	1,705	2,809		1914	10	3,620	5,142	1,955	34,587	37,780
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	13	2,805	1,699	3,060	2,435	6,839		1909	16	3,737	3,681	1,804	35,013	39,134
	1914	6	1,281	912	896	750	1,741	Stoves and hot-air furnaces....	1919	7	279	389	353	365	1,057
	1909	5	2,108	1,123	1,323	1,123	2,682		1914	11	298	456	236	396	874
Cleansing and polishing prep- arations.	1919	6	51	74	29	280	536		1909	7	312	334	161	242	598
	1914	6	45	82	13	145	321	Tobacco, cigars.....	1919	30	267	2	171	368	734
Clothing, men's. <sup>3</sup> .....	1919	8	1,028	390	1,290	4,061	6,780		1914	34	355	.....	222	212	878
	1914	7	1,542	380	771	1,435	2,852		1909	44	475	2	206	223	681
	1909	10	1,539	380	583	1,359	2,709	All other industries.....	1919	238	10,711	30,682	10,743	52,833	86,669
Clothing, women's.....	1919	9	508	148	334	1,008	1,756		1914	211	8,459	20,602	5,113	19,721	34,943
	1914	9	384	106	170	390	687		1909	267	8,606	19,110	4,339	17,495	30,211
	1909	8	462	78	172	401	725								
Coffee, roasting and grinding..	1919	10	80	335	76	1,588	2,097								
	1914	4	58	210	27	866	1,059								
	1909	4	78	116	32	896	1,167								

<sup>1</sup> Includes "gas machines and gas and water meters"; "plumbers' supplies, not elsewhere specified"; and "pumps, steam and other power," in all years; "structural ironwork, not made in steel works or rolling mills," in 1914 and 1909; and "steam fittings and steam and hot-water heating apparatus" in 1909.

<sup>2</sup> Includes "lumber, planing-mill products, not including planing mills connected with sawmills."

<sup>3</sup> Includes "shirts" in 1909.

<sup>4</sup> Includes "hardware"; "iron and steel, welding"; "machine tools"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks, portable"; and "structural ironwork, not made in steel works or rolling mills," in all years; "engines, steam, gas, and water"; and "pumps, steam and other power" in 1919 and 1914; "plumbers' supplies, not elsewhere specified" in 1914 and 1909; "gas machines"; and "hardware, saddlery" in 1914.

<sup>5</sup> Includes "saddlery and harness" and "trunks and valises."

<sup>6</sup> Includes "boxes, wooden packing, except cigar boxes"; and "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "window and door screens and weather strips" in 1919 and 1914.

<sup>7</sup> Includes "varnishes" in 1909.

<sup>8</sup> Includes "perfumery and cosmetics."

<sup>9</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

<sup>10</sup> Includes "sausage, not made in slaughtering and meat-packing establishments" in 1909.



# MANUFACTURES—INDIANA.

29

TABLE 34.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Contd.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
							Expressed in thou- sands of dollars.								Expressed in thou- sands of dollars.
CITIES OF 50,000 INHABITANTS OR MORE, ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
SOUTH BEND..... All industries.	1919 1914 1909	214 250 218	14,792 12,203 11,789	28,748 21,512 16,280	17,427 6,989 5,886	38,700 12,742 15,253	75,339 31,180 27,855	TERRE HAUTE..... All industries.	1919 1914 1909	257 171 169	6,458 5,270 4,347	19,664 14,552 10,398	7,390 3,206 2,503	26,903 11,008 8,375	41,968 25,699 21,470
Bread and other bakery prod- ucts.	1919 1914 1909	21 24 23	103 106 107	125 75 104	134 74 55	662 241 259	969 412 334	Artificial stone products.....	1919 1914 1909	7 3	18 11	16 15	23 8	43 10	86 31
Confectionery.....	1919 1914 1909	8 7 7	114 41 46	100 42 20	100 20 19	439 86 67	744 148 140	Bread and other bakery prod- ucts.	1919 1914 1909	28 21 20	265 215 203	394 174 112	249 115 98	1,255 526 431	2,030 881 741
Copper, tin, and sheet-iron work.	1919 1914	4 9	25 47	5 53	28 35	32 47	89 109	Clothing, men's and youths'..	1919 1914 1909	4 3 3	286 377 418	161 114 85	133 169 130	929 758 640	1,352 1,034 941
Foundry and machine-shop products. <sup>1</sup>	1919 1914 1909	11 16 20	304 427 473	486 579 672	375 280 255	444 267 331	1,204 717 882	Confectionery and ice cream..	1919 1914	8 5	182 125	203 117	96 55	496 230	748 391
Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919 1914	6 6	84 83	258 241	91 52	562 301	704 467	Foundry and machine-shop products. <sup>1</sup>	1919 1914 1909	18 15 11	481 339 191	1,274 575 464	539 223 113	798 444 221	1,863 1,025 428
Marble and stone work.....	1919 1914	3 3	16 17	69 93	25 15	51 32	124 71	Mineral and carbonated waters	1919 1914	6 7	20 25	58 50	18 14	134 38	219 93
Mineral and carbonated waters	1919 1914	4 4	11 9	4 8	10 7	30 14	70 34	Printing and publishing.....	1919 1914 1909	18 16 19	188 183 206	237 255 340	250 146 160	387 142 162	1,250 631 592
Patent medicines and com- pounds and druggists' preparations. <sup>2</sup>	1919 1914 1909	13 15 13	106 59 37	15 22 20	57 32 12	146 76 42	433 363 228	Tobacco, cigars. <sup>3</sup> .....	1919 1914 1909	9 18 22	7 118 18	5 10 2	5 23 9	11 66 20	32 122 54
Printing and publishing. <sup>4</sup> .....	1919 1914 1909	23 27 21	244 253 263	292 308 237	269 187 157	479 234 155	1,340 767 408	All other industries.....	1919 1914 1909	159 83 94	5,011 3,877 3,311	17,256 13,236 9,395	6,077 2,453 1,978	22,850 8,794 6,901	34,388 21,491 18,714
Tobacco, cigars.....	1919 1914 1909	12 22 25	155 230 259	10 12 10	143 118 106	216 168 164	523 420 423								
All other industries.....	1919 1914 1909	109 117 109	13,630 10,931 10,604	27,384 20,070 15,208	10,195 6,169 5,282	35,039 11,276 14,235	69,019 27,672 25,380								
CITIES OF 10,000 TO 50,000 INHABITANTS <sup>5</sup> —ALL INDUSTRIES COMBINED.															
ANDERSON.....	1919 1914 1909	99 114 116	7,928 3,906 4,393	20,002 10,569 12,981	\$8,455 2,425 2,104	\$22,090 7,211 8,127	\$38,931 12,789 13,765	LAFAYETTE.....	1919 1914 1909	85 84 65	2,550 1,310 1,225	6,158 3,932 3,149	2,879 795 629	6,879 3,077 3,085	12,616 5,186 4,897
BLOOMINGTON.....	1919 1914	39 40	1,420 1,057	3,708 3,047	1,123 581	4,250 1,370	6,816 2,329	LOGANSFORT.....	1919 1914 1909	67 67 68	2,338 1,709 2,109	5,554 2,454 2,338	3,044 1,110 1,237	3,925 2,019 1,932	7,746 3,671 4,201
CRAWFORDSVILLE.....	1919 1914	55 56	785 680	2,181 2,004	742 398	2,870 1,668	4,837 2,549	MARION.....	1919 1914 1909	101 90 88	4,646 2,970 2,229	8,941 6,172 6,106	4,331 1,695 1,174	14,819 3,561 2,248	24,325 6,705 4,282
EAST CHICAGO.....	1919 1914 1909	61 79 32	8,957 7,482 6,067	84,569 44,076 38,363	15,258 6,384 3,317	63,334 28,584 17,768	89,569 41,624 23,869	MICHIGAN CITY.....	1919 1914 1909	47 52 47	3,452 4,442 2,885	6,303 7,880 5,835	4,669 2,593 1,261	27,125 10,205 5,342	37,361 16,120 8,261
ELKHART.....	1919 1914 1909	120 105 68	5,728 2,993 2,942	9,491 5,952 4,473	6,050 1,000 1,507	13,362 4,352 2,945	24,421 8,649 6,835	MISHAWAKA.....	1919 1914 1909	32 52 42	5,038 3,332 3,445	11,261 8,255 7,610	5,038 1,898 1,748	14,028 5,731 5,270	27,765 12,304 10,883
ELWOOD.....	1919 1914 1909	32 39 36	2,167 1,961 2,072	7,110 6,017 6,122	2,620 1,478 1,399	10,518 5,689 6,226	15,645 8,187 8,370	MUNCIE.....	1919 1914 1909	121 113 100	6,559 3,087 3,583	15,542 7,406 6,420	7,142 2,376 1,913	18,810 6,466 4,688	33,176 10,779 8,441
HAMMOND.....	1919 1914 1909	94 82 40	6,085 4,281 3,841	16,018 9,825 7,348	8,839 2,069 1,861	30,952 9,820 6,651	59,276 20,584 15,580	NEW ALBANY.....	1919 1914 1909	93 102 94	1,239 1,458 1,851	3,341 4,482 3,779	1,110 672 697	4,128 1,860 1,774	6,766 3,286 3,323
HUNTINGTON.....	1919 1914 1909	57 50 33	2,165 1,239 1,376	3,139 2,440 1,400	2,732 631 623	4,498 1,540 1,130	9,977 2,791 2,228	NEW CASTLE.....	1919 1914	33 33	4,041 1,950	5,821 3,674	4,170 1,282	8,499 1,947	14,584 4,498
JEFFERSONVILLE.....	1919 1914 1909	29 40 35	1,017 1,176 766	3,364 3,621 3,422	1,332 825 437	4,392 2,206 1,083	6,733 3,529 1,916	PERU.....	1919 1914 1909	40 34 31	1,406 787 619	1,941 1,819 2,013	1,190 377 276	2,445 859 482	4,705 1,629 1,067
KOKOMO.....	1919 1914 1909	98 78 72	6,727 3,289 2,051	33,470 12,178 3,955	8,249 2,149 1,075	21,593 6,078 2,982	38,700 10,641 5,451	RICHMOND.....	1919 1914 1909	144 118 107	4,938 3,632 3,621	6,711 5,707 5,087	4,859 2,316 1,834	12,712 4,970 5,118	22,894 10,262 10,374
LA PORTE.....	1919 1914 1909	52 55 41	3,502 1,765 1,674	5,741 4,976 3,373	4,061 1,160 795	10,531 2,408 1,813	20,581 5,920 3,972	VINCENNES.....	1919 1914 1909	98 71 84	1,191 962 1,233	4,090 4,120 5,044	1,089 601 669	4,580 2,670 2,416	7,562 5,233 4,234

<sup>1</sup> Includes "hardware" and "structural ironwork, not made in steel works or rolling mills," in 1909.

<sup>2</sup> Includes "perfumery and cosmetics" in 1919.

<sup>3</sup> Includes "bookbinding and blank-book making" in 1909.

<sup>4</sup> Includes "structural ironwork, not made in steel works or rolling mills," in 1909.

<sup>5</sup> Includes "tobacco, chewing and smoking, and snuff," in 1909.

<sup>6</sup> Excludes Whiting, to avoid disclosure of individual operations.



TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			16 and over.		Under 16.					
						Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.				
									Maximum month.	Minimum month.								
1	All industries.....	7,916	330,145	6,768	13,594	20,747	11,456	277,580	Se	294,892	Mh	261,725	(*)	(*)	(*)	(*)	Dollars, 1,335,714,103	
2	Agricultural implements.....	29	7,149	10	313	970	314	5,533	De	6,118	Ap	5,054	6,122	5,937	176	9	42,534,365	
3	Artificial limbs.....	3	4	2	1			1	De	2	Mh	0	3	3			2,128	
4	Artificial stone products.....	289	1,217	326	87	46	27	731	Au	1,058	Fe	374	930	928	2		2,228,176	
5	Automobile bodies and parts.....	145	17,367	99	651	706	682	15,229	No	16,587	Fe	12,865	17,092	16,548	1,081	55	54,604,095	
6	Automobiles.....	27	12,162	3	308	737	510	10,544	De	13,247	Fe	8,769	13,126	12,178	894	54	54,999,762	
7	Automobile repairing.....	358	1,454	439	64	16	50	885	Au	951	Ja	779	926	919	5	2	1,954,600	
8	Awnings, tents, and sails.....	19	187	17	11	7	10	142	My	220	Ja	82	175	72	103		446,832	
9	Baskets, and rattan and willow ware	12	1,113	11	38	33	14	1,017	De	1,130	Ja	898	1,108	603	458	15	32	820,036
10	Bookbinding and blank-book making	14	88	10	9		1	65	Oc	76	Mh	64	35	33	1	2	107,870	
11	Boots and shoes, not including rubber boots and shoes.....	5	802	1	36	97	48	620	Fe	743	Je	378	657	825	268	26	38	2,276,434
12	Boxes, cigar.....	8	118	10	5		1	102	De	147	Ja	62	142	37	76	1	28	72,124
13	Boxes, paper and other, not elsewhere specified.....	21	1,815	11	71	100	71	1,562					1,725	845	817	15	48	4,288,746
14	Shipping containers, corrugated and fiber.....	8	1,207	1	38	88	54	1,026	No	1,196	Mh	886	1,113	670	427	5	11	3,204,732
15	Cartons, and set-up paper boxes.....	13	608	10	33	12	17	536	Se	606	Fe	499	612	175	390	10	37	1,084,014
16	Boxes, wooden packing, except cigar boxes.....	28	1,064	18	45	29	23	949	Se	1,079	Mh	846	1,116	898	174	37	7	1,933,978
17	Brass, bronze, and copper products.....	31	1,396	17	56	27	25	1,271	No	1,502	My	1,117	1,425	1,351	70	4		2,260,491
18	Bread and other bakery products.....	802	5,706	916	194	611	226	3,759	De	3,989	Ja	3,504	4,050	2,948	1,031	57	14	10,687,558
19	Brick and tile, terra-cotta, and fire-clay products.....	151	4,132	111	211	112	50	3,648					4,286	4,096	179	11		15,992,617
20	Building brick.....	41	1,323	21	81	29	13	1,179	Se	1,554	Ja	609	1,515	1,504	4	7		5,340,159
21	Fire brick, stove lining, and tile, other than drain tile.....	7	516	1	16	19	8	472	Jy	523	De	387	462	399	63			3,065,769
22	Sewer pipe and drain tile.....	92	1,359	89	84	25	10	1,151	Se	1,415	Ja	756	1,388	1,334	2	2		3,572,297
23	Terra-cotta products.....	11	934		30	39	19	846	Oc	1,036	Mh	593	971	859	110	2		4,014,392
24	Brooms.....	61	605	69	34	33	17	452	Fe	488	Au	394	495	537	133	21	4	1,165,632
25	Butter.....	92	2,001	60	160	129	199	1,453	Au	1,645	Ja	1,198	1,434	1,142	292			5,061,815
26	Buttons.....	14	306	27	15	2	1	261	De	318	My	209	313	294	19			256,076
27	Canning and preserving, fruits and vegetables.....	136	3,510	118	246	98	99	2,949	Se	9,239	Mh	801	7,564	3,714	3,715	49	80	11,527,447
28	Carpets, rag.....	11	75	15	5	2	3	50	My	70	Ja	34	50	22	28			87,696
29	Carriage and wagon materials.....	21	882	11	39	23	27	782	Oc	868	Mh	696	840	794	38	8		2,613,043
30	Carriages and sleds, children's.....	8	1,049	1	35	50	45	918	Je	980	Ja	833	924	696	195	26	7	2,293,169
31	Carriages and wagons, including repairs.....	79	1,777	74	63	107	99	1,434					1,508	1,421	77	10		6,473,479
32	Carriages and wagons.....	49	1,660	43	60	105	95	1,363	No	1,408	Ap	1,264	1,432	1,347	76	9		6,291,292
33	Repair work only.....	80	111	31	3	2	4	71	Se	74	Ap	67	76	74	1	1		182,187
34	Cars and general shop construction and repairs by electric-railroad companies.....	30	1,042		37	23	5	977	Jy	1,001	Je	949	990	970	26			1,770,669
35	Cars and general shop construction and repairs by steam-railroad companies.....	77	25,090		893	852	246	23,099	De	24,841	Ap	21,821	25,075	24,962	113			28,450,300
36	Cars, steam-railroad, not including operations of railroad companies.....	9	7,494		292	410	133	6,650	My	7,842	Se	5,476	7,045	7,018	27			62,901,805
37	Cement.....	5	2,420		108	259	100	1,953	Se	2,475	Ja	1,452	2,183	2,089	94			11,814,207
38	Chemicals.....	9	1,305		32	176	71	1,026	Ja	1,244	Je	827	1,008	990	14	4		7,466,016
39	Cleansing and polishing preparations.....	11	126		11	51	5	54					59	21	38			267,232
40	Cleansing preparations.....	4	51	3	2	30	2	14	De	17	Mh	12	15	6	9			66,548
41	All other.....	7	75	2	9	21	3	40	De	54	Je	31	44	15	29			210,684
42	Clothing, men's.....	37	3,995	32	110	213	160	3,480					3,778	619	3,024	13	122	6,516,741
43	Men's and youths'.....	13	2,201	14	63	139	125	1,860	De	2,068	Ja	1,602	2,057	478	1,530	9	31	3,831,950
44	All other, including contract work	24	1,794	18	47	74	35	1,620	De	1,691	Ap	1,555	1,721	141	1,485	4	91	2,684,791
45	Clothing, women's.....	26	1,383	10	59	75	39	1,200					1,208	96	1,069	2	41	1,694,603
46	Regular factories.....	22	1,252	6	56	75	38	1,077					1,108	89	976	2	41	1,650,470
47	Suits, skirts and cloaks.....	5	142	2	11	16	2	111	No	152	Ja	75	147	19	127			156,213
48	Shirt waists and dresses, except house dresses.....	5	558	1	22	31	16	488	My	526	Ja	456	494	31	460	1	2	487,127
49	Undergarments and petticoats.....	4	141	2	5	6	6	122	Jy	128	Mh	112	124	8	106			206,612
50	Wrappers and house dresses.....	5	358	1	13	21	13	310	No	369	Fe	263	295	28	266			738,796
51	All other.....	3	53		5	1	1	46	Au	53	Ap	33	48	3	17	1	27	61,722
52	Contract work.....	4	131	4	3		1	123	Se	172	Ja	81	100	7	93			44,193
53	Coffee, roasting and grinding.....	24	327	18	29	66	27	187	No	205	Fe	187	207	109	96			1,961,597
54	Coffins, burial cases, and undertakers' goods.....	22	995	4	69	85	31	806	Mh	842	Au	777	796	671	217	8	5	2,574,332
55	Condensed milk.....	7	254		20	7	22	205	Je	246	Mh	159	193	163	30			1,363,855
56	Confectionery and ice cream.....	235	2,381	263	128	162	115	1,713					1,846	946	820	17	63	5,128,756
57	Confectionery.....	84	1,526	92	59	141	57	1,177	Oc	1,371	My	985	1,275	433	768	11	63	2,819,699
58	Ice cream.....	151	855	171	69	21	58	636	Jy	768	Jy	376	571	513	52	6		2,309,057
59	Cooperage.....	24	225	14	12	8	8	183					225	225				763,470
60	Hogshead and barrels.....	19	162	13	10	2	2	135	Fe	184	Je	111	136	136				522,239
61	All other.....	5	63	1	2	6	6	48	Jy	61	Oc	40	39	89				241,231
62	Copper, tin, and sheet-iron work.....	172	1,033	177	87	30	43	696	Se	789	Ja	565	780	745	32	3		1,926,038
63	Cotton goods.....	4	1,043		18	20	8	997	Mh	1,044	Ja	950	1,001	426	503	19	53	3,527,971
64	Cutlery and edge tools.....	4	182	2	10	5	4	161	Mh	175	De	70	186	158	28			562,053
65	Dairymen's and poultrymen's supplies.....	10	311	5	29	6	15	256					318	230	81	5	2	668,797
66	Incubators, brooders, and other poultrymen's supplies.....	6	203	4	17	5	10	167	De	235	Ja	89	235	152	77	4	2	292,793
67	Cream separators and other dairymen's supplies.....	4	108	1	12	1	5	89	Mh	106	Se	69	83	78	4	1		376,004
68	Dental goods.....	3	16	4	1		2	9	Se	11	De	8	10	8	2			30,938

\* Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).

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

\* No figures given for reasons stated under "Explanation of terms."



# MANUFACTURES—INDIANA.

31

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.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rented. <sup>2</sup>
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
43,304,231	41,812,215	317,042,907	3,802,139	4,571,807	747,14,283	1,084,756,375	90,194,193	1,898,753,387	723,802,819	1,095,912	367,321	154,125	180,271	10,162	375,033	279,065	1	
1,098,908	1,432,434	7,401,107	20,779	3,452	2,075,023	12,167,498	447,424	31,823,733	10,208,811	10,864	3,848	3,350	73	2,025	1,568	7,516	2	
560	1,510	50	50	945	18	2,136	60	11,385	9,189	2	2	20	629	23	668	10	3	
151,852	95,991	838,559	3,322	13,760	29,030	1,117,042	37,315	3,085,887	1,931,630	1,704	424	20	230	230	18,116	4,824	4	
2,465,094	1,480,754	17,372,532	194,450	105,777	1,849,806	38,307,660	1,671,542	71,717,249	31,648,947	25,917	4,106	3,375	230	230	10,734	626	5	
1,434,404	1,340,025	12,480,013	6,093	102,269	4,936,045	77,158,346	539,309	107,347,614	29,649,809	13,564	2,830	28	10	401	1,253	7	6	
98,344	51,193	1,067,140	0,615	105,417	26,018	1,217,716	67,442	3,352,031	2,066,873	1,692	61	61	61	61	242	60	7	
44,211	18,925	93,075	304	6,679	69,498	493,652	3,433	806,116	339,031	937	695	695	695	695	242	60	8	
77,369	48,198	568,686	2,449	4,587	14,618	485,962	22,771	1,501,715	1,082,982	60	60	60	60	60	242	60	9	
9,015	936	55,005	.....	6,802	2,395	53,232	1,556	104,415	109,627	420	35	35	35	35	391	.....	10	
95,236	204,922	404,352	.....	240	15,814	1,890,589	14,743	2,853,559	948,227	104	104	104	104	104	104	.....	11	
7,800	930	60,300	.....	5,890	439	64,756	2,789	178,101	110,556	154	530	530	530	530	1,011	570	12	
208,704	244,754	1,181,090	16,688	18,337	251,446	4,339,156	66,404	8,400,158	4,000,508	1,541	.....	.....	.....	.....	1,011	570	13	
127,351	219,417	886,705	.....	8,740	222,500	3,663,384	52,720	6,841,823	3,125,710	1,145	450	450	450	450	695	550	14	
81,353	25,337	294,385	10,688	9,597	28,856	675,772	13,675	1,504,335	874,888	396	80	80	80	80	316	20	15	
136,475	60,847	667,602	.....	13,331	139,140	1,722,080	18,874	3,104,646	1,423,092	2,481	1,732	1,732	1,732	1,732	716	10	16	
216,980	38,801	1,485,221	1,647	11,970	163,084	3,130,452	103,603	5,638,482	2,404,427	1,514	728	728	728	728	1,514	3	17	
457,753	774,032	3,600,006	42,095	220,101	638,280	18,021,003	554,141	30,020,059	10,543,925	5,703	.....	.....	.....	.....	4,746	350	18	
417,252	235,505	3,510,367	48,448	8,560	244,236	1,805,657	1,031,311	9,880,579	6,443,611	20,883	16,225	16,225	16,225	16,225	4,451	994	19	
160,544	55,136	1,169,059	5,106	2,800	61,152	413,546	559,871	3,037,259	2,063,842	7,580	5,229	5,229	5,229	5,229	2,273	485	20	
52,169	48,629	466,893	0,033	.....	64,054	421,961	213,686	1,730,153	1,104,336	1,905	1,260	1,260	1,260	1,260	645	21	21	
132,633	44,043	1,054,414	10,382	1,709	66,668	573,378	556,752	2,032,952	1,802,822	7,578	7,096	7,096	7,096	7,096	388	142	22	
71,906	87,697	828,191	17,927	4,000	52,362	390,772	301,002	2,170,385	1,472,611	3,811	2,640	2,640	2,640	2,640	1,145	307	23	
100,037	86,605	306,776	.....	5,492	45,207	849,813	12,804	1,621,849	1,059,232	541	175	175	175	175	219	70	24	
369,701	285,357	1,200,268	10,364	15,887	159,787	23,833,038	214,789	27,000,732	3,852,905	3,112	953	953	953	953	1,087	86	25	
16,008	1,300	170,102	3,040	617	1,642	100,808	11,009	408,457	236,520	207	110	110	110	110	121	29	26	
474,840	167,065	1,902,399	6,511	22,655	231,905	11,507,674	216,863	13,898,767	7,174,340	8,058	5,761	5,761	5,761	5,761	1,901	873	27	
8,504	9,275	30,569	510	1,808	354	19,546	2,481	107,617	85,590	89	89	89	89	89	83	28	28	
108,347	58,985	711,529	1,238	1,238	81,632	1,099,382	73,030	3,616,457	1,444,045	3,583	1,870	1,870	1,870	1,870	1,031	1,000	29	
137,888	158,381	820,160	8,717	4,689	68,482	1,080,259	35,879	3,650,335	1,934,197	855	140	140	140	140	715	30	30	
165,886	138,081	1,351,898	1,539	10,402	182,829	6,946,983	95,989	9,268,688	2,871,724	2,809	1,300	1,300	1,300	1,300	1,315	32	31	
163,472	133,970	1,281,284	1,530	11,076	180,395	6,207,119	43,822	9,082,022	2,741,081	2,502	1,390	1,390	1,390	1,390	1,095	32	32	
5,414	4,711	70,614	.....	4,426	2,434	40,804	6,159	186,606	130,643	247	247	247	247	247	220	33	33	
68,288	21,440	1,005,083	.....	.....	11,910	808,076	41,011	1,960,617	1,111,530	2,054	1,400	1,400	1,400	1,400	654	47	34	
2,341,708	1,474,525	32,393,399	.....	15,025	70,902	23,232,855	1,633,808	61,232,356	36,365,693	30,364	17,376	2,208	22	8	10,740	14,593	35	
1,166,608	930,851	11,501,903	.....	4,330,080	64,987,248	1,087,746	80,021,028	10,046,034	21,325	5,375	6,100	.....	.....	.....	9,850	12,036	36	
305,175	571,724	2,682,173	.....	1,647,042	306,908	3,871,335	1,002,030	13,362,808	7,490,443	44,315	9,240	14,141	.....	.....	20,934	19,600	37	
192,862	384,575	1,732,093	.....	1,440	381,077	3,378,880	501,716	8,640,304	4,878,702	8,574	6,096	180	210	.....	1,488	698	38	
82,884	51,054	30,341	.....	6,780	4,261	322,415	2,427	589,440	264,007	74	74	74	74	74	15	.....	39	
2,550	20,092	7,323	.....	3,370	565	72,630	890	138,590	65,073	15	15	15	15	15	15	.....	40	
30,314	30,902	23,018	.....	3,410	3,680	240,779	1,537	450,850	190,534	59	59	59	59	59	59	.....	41	
370,539	662,494	2,254,828	4,737	80,203	228,448	9,742,014	40,912	15,000,047	5,208,124	1,065	.....	.....	.....	.....	1,055	1	42	
206,147	385,967	1,318,197	2,205	52,603	160,028	4,012,738	28,414	7,153,996	3,112,844	550	550	550	550	550	540	1	43	
164,892	276,527	936,631	2,532	27,600	62,420	5,729,276	21,498	7,846,051	2,095,277	515	515	515	515	515	515	.....	44	
168,068	202,171	662,140	20,013	30,947	53,619	1,902,400	11,081	3,397,809	1,483,228	274	274	274	274	274	274	.....	45	
162,205	201,235	599,420	12,013	28,127	53,482	1,873,697	10,496	3,282,504	1,398,411	256	256	256	256	256	256	.....	46	
17,547	24,082	75,126	.....	6,287	4,094	192,634	1,438	375,622	181,050	20	20	20	20	20	20	.....	47	
84,126	119,549	250,038	2,513	9,785	7,800	665,850	4,202	1,200,397	500,336	72	72	72	72	72	72	.....	48	
17,029	24,701	58,552	.....	1,945	11,278	204,567	1,301	346,831	140,993	10	10	10	10	10	19	.....	49	
36,003	27,935	197,754	.....	9,090	28,519	664,852	3,091	1,099,808	431,365	136	136	136	136	136	136	.....	50	
7,500	4,968	17,959	.....	1,020	801	145,785	464	200,340	54,097	9	9	9	9	9	9	.....	51	
5,883	936	62,711	.....	2,820	137	28,803	1,185	114,805	84,817	18	18	18	18	18	18	.....	52	
67,510	94,429	100,228	.....	30,400	31,996	2,777,768	18,467	3,711,360	915,125	595	75	75	75	75	520	53	53	
220,965	263,325	655,835	.....	1,777	130,910	2,023,516	39,155	3,948,236	1,885,565	1,404	780	780	780	780	586	14	54	
72,250	35,490	204,137	.....	40,540	3,833,437	92,351	4,617,448	691,660	792	455	455	455	455	455	337	213	55	
387,439	368,737	1,236,592	3,334	164,999	550,288	7,047,712	165,362	3,981,615	4,053	1,056	161	53	.....	.....	2,783	445	56	
192,281	312,901	705,756	880	98,151	480,013	3,218,714	52,373	5,662,038	2,291,851	1,038	360	360	360	360	678	357	57	
195,158	55,746	530,836	2,454	66,848	75,375	3,828,098	112,989	5,631,751	1,689,764	3,015	896	161	53	.....	2,105	88	58	
34,492	16,601	169,985	1,242	10,145	830,380	29,726	1,285,248	419,142	665	610	610	610	610	610	55	.....	59	
29,004	3,587	120,211	1,177	7,540	490,657	28,229												



## MANUFACTURES—INDIANA.

TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

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

																		Dollars.
1	Druggists' preparations.....	25	1,844	15	81	118	221	1,409	Ja	1,617	Au	1,289	1,338	633	705	61	57	6,598,250
2	Electrical machinery, apparatus, and supplies.....	47	14,180	6	329	1,188	881	11,756	No	13,521	Ja	9,859	13,003	9,122	3,763	61	57	35,430,365
3	Electroplating.....	11	49	11	1	1	1	37	De	49	Jy	32	52	51	1	1	1	46,408
4	Engines, steam, gas, and water.....	16	3,547	5	111	469	109	2,853	Ja	3,208	Jy	2,530	3,088	2,970	118	1	1	18,892,903
5	Engraving, steel and copper plate, including plate printing.....	7	128	6	6	7	6	103	Cc	115	Ja	92	111	88	17	3	3	106,902
6	Fertilizers.....	13	435	3	32	50	22	328	Se	628	Fe	258	300	296	3	1	1	3,268,585
7	Flavoring extracts.....	7	72	4	10	10	11	37	De	41	Fe	35	40	13	27	1	1	184,225
8	Flour-mill and gristmill products.....	450	3,471	489	280	265	157	2,280	Se	2,473	Fe	2,084	2,394	2,323	71	1	1	29,939,740
9	Food preparations, not elsewhere specified.....	40	734	39	53	71	32	539	Se	2,473	Fe	2,084	2,394	2,323	71	1	1	3,275,031
10	Sweetening sirups, other than cane.....	21	62	24	6	1	3	29	Oc	92	My	6	97	91	0	1	1	92,534
11	Other preparations for human consumption.....	12	449	9	19	24	13	384	Ja	654	De	234	241	153	88	1	1	1,084,548
12	Prepared feed for animal and fowl consumption.....	7	223	6	28	47	16	126	Jy	140	De	119	123	123	1	1	1	1,497,949
13	Foundry and machine-shop products.....	395	22,698	270	1,023	1,081	896	18,828	Ja	1,118	Ja	990	21,609	19,709	1,431	468	1	95,507,611
14	Boiler shops.....	25	1,176	26	25	87	23	1,015	Je	1,118	Ja	990	1,004	1,004	312	8	1	2,421,871
15	Foundries.....	65	6,855	39	315	198	131	6,172	De	7,071	Mh	5,509	7,149	6,828	312	8	1	17,011,561
16	Machine shops.....	279	10,670	200	544	1,137	569	8,220	De	9,137	Ap	7,708	9,511	8,427	624	460	1	65,810,205
17	Machine shop and foundry combined.....	26	3,997	6	139	259	173	3,421	De	3,911	Mh	2,384	3,945	3,450	495	1	1	9,803,914
18	Fur goods.....	7	39	7	1	1	2	29	No	43	Je	21	36	10	26	1	1	106,511
19	Furniture.....	177	14,953	57	691	653	295	13,257	De	12,974	Ja	10,525	14,540	12,751	1,485	255	49	33,004,712
20	Wood, rattan, and willow furniture.....	155	13,340	50	590	590	262	11,848	De	12,974	Ja	10,525	13,041	11,523	1,281	192	45	28,690,182
21	Metal furniture.....	6	389	4	24	14	9	338	De	366	Mh	323	365	317	47	1	1	756,526
22	Store and office fixtures.....	16	1,224	3	77	49	24	1,071	De	1,131	Mh	1,019	1,134	911	157	62	4	2,613,004
23	Gas and electric fixtures.....	3	57	1	7	7	7	42	Oc	58	Ja	29	58	49	9	1	1	177,807
24	Gas, illuminating and heating.....	53	2,633	1	147	329	254	1,902	Au	1,987	My	1,788	1,896	1,890	6	1	1	32,999,981
25	Gas machines and gas and water meters.....	7	450	1	18	94	12	325	No	391	Je	239	395	395	1	1	1	1,001,493
26	Glass.....	35	9,911	236	180	139	9,350	No	10,492	Au	7,860	10,494	8,599	1,398	423	74	1	19,900,806
27	Glass, cutting, staining, and ornamenting.....	12	310	8	14	5	12	271	No	311	Ja	227	305	251	49	5	1	935,521
28	Gloves and mittens, leather.....	4	232	1	12	4	2	213	Oc	250	Mh	106	246	55	150	9	32	303,283
29	Gloves and mittens, cloth, not including gloves made in textile mills.....	24	1,628	8	51	24	25	1,520	Ja	1,829	My	1,259	1,534	139	1,257	9	110	3,570,256
30	Glue, not elsewhere specified.....	4	218	14	6	5	193	De	222	Jy	161	216	202	14	1	1	1	752,880
31	Grease and tallow, not including lubricating greases.....	44	222	47	21	1	4	149	De	222	Jy	161	154	152	1	1	1	907,595
32	Soap stock.....	31	153	32	18	1	3	99	Se	105	Je	88	102	100	1	1	1	540,255
33	Tallow.....	8	47	8	2	1	1	36	Oc	40	Ap	30	38	38	1	1	1	280,712
34	All other.....	5	22	7	1	1	14	No	15	Jy	13	14	14	14	1	1	1	86,628
35	Hand stamps.....	10	98	10	4	7	8	69	De	79	Ja	58	70	48	22	1	1	85,832
36	Hardware.....	8	214	2	17	5	16	174	Au	274	Ja	83	236	161	69	2	4	503,011
37	Hats and caps, other than felt, straw and wool.....	4	34	3	5	3	1	22	Oc	40	Fe	2	36	20	15	1	1	69,799
38	Hones and whetstones.....	4	23	4	4	1	14	Se	18	Fe	10	16	14	12	2	1	1	111,550
39	House-furnishing goods, not elsewhere specified.....	9	48	8	4	1	34	Oc	35	No	32	35	12	23	1	1	1	80,765
40	Ice, manufactured.....	107	1,188	60	184	42	47	855	Jy	1,321	Ja	488	821	803	12	6	1	6,869,598
41	Ink, writing.....	3	4	3	1	1	1	1	Se	3	De	0	2	2	1	1	1	1,280
42	Iron and steel, steel works and rolling mills.....	23	24,988	562	1,553	511	22,362	Ja	26,083	Oc	10,089	23,710	23,668	49	2	1	1	184,292,631
43	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	6	1,257	46	41	20	1,150	Ja	1,401	Oc	830	842	629	208	4	1	1	5,673,066
44	Iron and steel forgings, not made in steel works or rolling mills.....	5	1,061	35	34	20	972	Mh	1,119	Se	692	863	861	2	1	1	1	4,167,007
45	Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.....	3	286	3	12	6	7	258	Ja	292	Ap	239	266	223	43	1	1	991,532
46	Iron and steel, tempering and welding.....	12	186	11	6	31	10	128	De	164	Ja	104	161	151	10	1	1	1,000,083
47	Jewelry.....	9	103	7	9	2	9	76	Oc	89	Jy	71	79	63	16	1	1	120,904
48	Knit goods.....	8	2,983	1	77	136	79	2,675	De	2,753	Jy	2,627	2,762	879	1,685	80	108	6,321,581
49	Lamps.....	6	257	2	13	3	15	224	De	270	Ja	206	270	144	126	1	1	769,461
50	Leather goods, not elsewhere specified.....	6	183	1	16	21	16	129	De	157	My	107	157	94	63	1	1	653,029
51	Leather, tanned, curried, and finished.....	9	442	2	28	9	7	396	Jy	414	Ap	358	388	386	2	1	1	4,786,639
52	Lime.....	5	462	8	13	13	9	419	Oc	450	De	346	391	391	1	1	1	967,549
53	Liquors, malt.....	13	967	83	92	23	759	Au	1,069	Fe	522	598	598	593	5	1	1	8,903,517
54	Lithographing.....	3	61	4	1	6	4	46	Se	49	Ja	39	48	35	6	1	1	190,382
55	Looking-glass and picture frames.....	5	294	2	11	18	9	254	Au	281	Ja	205	249	195	49	4	1	591,934
56	Lumber and timber products.....	486	5,170	594	227	107	69	4,173	De	4,995	Ja	3,541	5,494	5,417	65	12	1	12,006,744
57	Lumber, planing-mill products, not including planing mills connected with sawmills.....	222	2,901	158	293	126	86	2,238	No	2,522	Ja	1,777	2,526	2,427	66	33	1	10,522,784
58	Machine tools.....	15	1,464	6	114	78	38	1,223	De	1,362	Mh	1,136	1,360	1,355	3	2	1	4,315,557
59	Marble and stone work.....	166	2,538	152	157	187	38	2,004	De	2,004	Fe	184	2,692	2,688	3	1	1	8,233,873
60	Monuments and tombstones.....	114	421	130	23	48	11	209	Au	220	Fe	184	226	224	1	1	1	1,205,908
61	Other marble and stone work, except slate.....	52	2,117	22	134	139	27	1,795	Se	2,489	Fe	858	2,466	2,464	2	1	1	7,029,965

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## MANUFACTURES—INDIANA.

33

## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.									
304,797	637,075	775,487	20,141	21,656	340,681	4,579,350	62,427	9,257,192	4,615,415	1,031	635	4	392	506	1				
1,036,050	2,379,508	11,160,493	500	35,061	784,024	20,262,035	547,642	41,594,125	20,784,448	32,611	4,350	850	233	27,178	623	2			
1,820	35,878	400	2,192	347	16,362	3,802	82,714	62,550	143	143	553	1,740	15	128	3				
279,933	606,654	3,595,827	4,031	233,290	7,555,313	133,331	14,472,788	0,784,144	3,853	3,853				1,560	4				
21,600	13,541	130,671	5,594	1,028	73,563	4,553	362,724	284,608	92	92				92	5				
116,686	87,647	306,255	967	111,855	2,608,571	34,890	4,713,067	1,979,606	2,123	440		50		1,627	6				
26,466	35,690	11,666	2,745	3,524	189,967	1,120	330,765	139,678	38					38	7				
750,807	514,561	2,272,638	16,150	600,578	61,084,283	755,762	75,111,435	9,371,400	39,341	22,506	1,710	2,917	3,188	8,030	4,240	8			
229,190	140,908	398,375	3,300	155,234	7,483,515	79,220	9,317,982	1,755,407	2,560	1,197	150	80		1,133	9				
4,620	1,549	15,743	840	494	42,868	4,732	86,780	30,180	256	225		26		5	10				
89,227	58,265	226,274	144	1,525	107,785	2,187,141	44,699	3,178,569	946,729	502	337	150	4	11	286	11			
135,352	81,094	150,358	2,201	935	46,955	5,253,506	20,789	6,052,633	769,338	1,802	635		50	1,117	15	12			
3,862,668	3,579,131	21,885,153	350,578	190,775	3,017,258	36,233,169	1,793,811	85,359,946	47,332,900	38,833	8,057		680	29,496	5,327	13			
206,331	172,234	1,065,250	343	1,979	117,306	2,490,804	41,881	4,201,111	1,752,306	1,523	47		14	1,462	14				
984,145	448,799	7,652,700	300,638	24,838	503,270	8,808,311	801,037	23,037,539	13,308,191	11,091	1,063		49	9,479	952	15			
2,153,831	2,530,742	9,186,115	40,597	101,458	1,020,001	18,857,835	615,539	43,106,157	23,692,783	19,338	5,212		809	13,517	3,357	10			
219,161	427,368	3,980,992	2,500	1,976,072	6,070,159	275,354	14,805,139	8,519,626	6,881	1,735				5,138	17				
10,000	1,145	27,864	347	5,688	2,703	74,073	1,025	180,447	114,349	8				8	18				
2,094,721	1,467,048	11,251,681	60,172	80,759	1,243,531	26,888,659	504,073	52,350,282	24,806,053	27,844	17,551	307	196	9,790	3,817	19			
1,896,988	1,393,185	10,002,412	55,369	66,741	1,028,181	24,254,026	535,574	47,084,863	22,185,203	25,585	15,951	307	194	9,083	3,555	20			
41,717	30,422	202,716	1,625	6,100	742,017	18,004	1,266,653	506,832	263	30				233	21				
150,016	73,441	986,553	4,803	12,303	209,310	1,802,013	41,005	3,908,766	2,064,758	2,046	1,570		2	474	252	22			
11,090	6,492	36,606	744	14,150	131,453	2,761	318,740	184,626	146					146	23				
281,379	429,410	2,137,557	4,006	307,464	536,334	1,533,028	5,018,943	12,454,200	5,842,535	8,378	3,596	225	175	4,382	178	24			
42,965	166,654	371,076	1,500	18,211	523,170	18,932	183,032	908,980	1,551	1,551				1,551	25				
652,675	391,750	9,012,581	104,008	6,501	925,142	10,513,348	2,641,258	30,100,652	16,952,046	18,977	5,080	1,500	6,039	5,758	8,386	26			
40,109	12,225	218,333	268	4,876	96,695	1,401,820	14,776	2,124,068	707,472	264				259	27				
26,923	8,629	86,117	270	33,073	370,734	4,056	5,588,108	213,318	89	89	50			39	28				
201,856	68,301	764,022	10,835	330,303	3,048,380	25,940	5,800,311	2,185,985	650	650		30		620	15	29			
32,890	11,371	263,559	780	3,243	753,095	40,267	1,151,813	349,451	330	170				160	30				
35,972	3,418	100,028	515	2,324	5,112	223,431	52,378	674,075	398,806	1,387	913	185	37	252	31				
29,595	2,500	100,220	515	2,024	3,066	63,854	37,116	402,080	302,010	809	655		37	117	32				
3,177	918	39,480	300	1,387	59,852	11,489	154,938	47,597	265	130				135	33				
1,200	17,322	17,322	659	63,725	3,773	116,757	40,259	116,757	313	128	185			47	34				
21,681	12,932	40,120	5,294	5,505	77,154	2,577	213,500	133,859	47					47	35				
40,185	24,918	124,458	4,817	1,436	22,587	290,384	12,500	609,411	396,431	171				171	36				
7,170	4,271	30,212	2,828	11	84,047	605	155,902	70,710	11					11	37				
3,450	10,206	500	60	451	17,210	2,115	44,083	24,758	111	40			51	20	38				
2,000	1,666	22,355	5,800	2,110	5,410	118,173	1,403	180,798	67,132	28				28	39				
307,030	84,963	808,498	14,501	9,657	118,709	668,170	745,125	4,080,390	2,676,095	12,075	10,268	145	62	1,600	40				
2,332,793	3,706,845	41,263,699	314	31,615	13,826,978	99,222,769	13,971,510	190,273,518	89,079,239	278,832	63,024	62,617	113,910	40,281	61,232	42			
168,851	111,825	1,230,491	840	323,000	3,249,805	181,822	6,205,763	2,864,076	4,117	650				3,467	500	43			
135,145	56,860	1,373,083	3,584	374,940	1,963,569	527,453	6,359,294	3,868,272	2,068	75	736			1,857	500	44			
28,393	13,218	254,167	2,500	20,091	1,038,105	22,517	1,524,046	463,424	1,100	415				685		45			
178,059	96,520	154,605	11,980	4,754	379,177	500,431	17,999	1,909,562	1,331,132	515				515		46			
26,635	15,071	68,921	2,880	6,976	2,846	112,422	1,207	302,108	188,389	41				41		47			
307,120	241,651	2,220,459	1,920	170,577	5,543,136	60,216	9,801,928	4,186,576	1,786	1,155				415	216	48			
28,767	16,667	163,323	590	1,223	328,082	10,277	554,568	210,200	843	80				25	738	10			
85,307	52,400	124,012	8,908	9,602	54,004	828,822	5,393	1,300,822	400,017	134				134		49			
120,402	26,687	343,075	8,052	102,367	3,410,059	45,209	4,729,538	1,274,240	1,206	425				781	140	51			
34,211	26,913	340,817	1,700	28,921	233,374	154,821	658,723	658,723	1,553	960			14	579	566	52			
269,600	156,451	830,132	2,791	576,877	1,518,224	206,609	3,968,689	2,234,056	8,383	7,875				513	1,453	53			
7,435	6,881	43,369	1,805	1,075	64,408	1,902	141,602	75,652	58					58		54			
46,692	55,767	208,963	5,610	1,745	270,119	7,241	725,298	447,936	351	225				125		55			
594,100	293,813	3,770,456	425,178	20,795	284,457	8,077,074	137,106	17,775,935	9,661,065	27,984	21,335	198	173	6,260	414	56			
625,690	227,176	2,176,988	8,727	27,182	325,940	8,648,012	196,340	14,102,002	5,257,650	14,202	4,672	60	467	8,853	120	57			
478,508	136,472	1,383,826	21,854	18,123	209,788	1,303,228	71,107	4,250,463	2,885,128	2,272	150		10	2,112	150	58			
469,306	272,218	2,134,695	150,517	21,371	77,842	2,228,165	361,138	7,611,601	5,082,200	16,668	6,390	150	169	10,052	1,700	59			
61,583	90,961	273,223	43,677	10,540	12,308	634,900	26,585	1,060,158	1,060,158	955	325		106	524		60			
407,723	181,257	1,861,473	106,840	10,831	65,444	1,293,263	274,553	5,589,835	4,022,042	15,713	5,075	150	60	9,528	1,760	61			

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> None reported for one or more other months.



## MANUFACTURES—INDIANA.

TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.									WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.	
								Maximum month.	Minimum month.						

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

																			Dollars.
1	Mattresses and spring beds, not elsewhere specified.	20	585	10	32	30	20	493	De	551	Mh	442	535	365	140	20	10		1,587,223
2	Millinery and lace goods, not elsewhere specified.	7	151	4	5	1		141					136	12	119		5		68,577
3	Trimmed hats and hat frames.	4	136	1	3	1		131	Fe	200	No	69	125	11	109		5		48,684
4	All other.	3	15	3	2			10	My	16	Ja	6	11	1	10				19,893
5	Mineral and soda waters.	122	645	120	55	24	23	423	Au	548	Ja	238	410	387	15	8			2,010,950
6	Mineral and carbonated waters.	117	572	117	46	18	21	370	Oc	89	Ja	37	40	40					1,201,666
7	Fruit and other beverages.	5	73	3	9	6	2	53	Oc	38	Fe	32	39	39					899,284
8	Minerals and earths, ground or otherwise treated.	6	48	4	5	3	1	35											152,729
9	Mirrors, framed and unframed, not elsewhere specified.	6	88	3	8	3	3	71	De <sup>3</sup>	78	Ja	60	78	66	8	4			240,587
10	Models and patterns, not including paper patterns.	34	302	45	16	4	6	231	Se	266	Mh	185	216	210	4	2			329,891
11	Motorcycles, bicycles, and parts.	5	494	2	18	19	16	430	De	494	Au	307	496	494	2				1,512,873
12	Mudclog, paste, and other adhesives, not elsewhere specified.	5	27	4	4	1	1	17	Oc	24	Je <sup>3</sup>	12	20	19	1				194,218
13	Musical instruments and materials, not specified.	14	1,499	9	24	47	82	1,337	Se	1,353	Ja	1,318	1,346	1,177	107	1	1		2,333,730
14	Musical instruments, pianos.	8	1,591		34	84	41	1,432	De	1,783	Ja	1,160	1,727	1,466	239	18	4		4,873,370
15	Oil, essential.	22	41	27	1			13	Se	47	De <sup>4</sup>	0	49	49					57,085
16	Oil, vegetable and animal.	3	29		7	2	4	16	Mh <sup>3</sup>	17	Ja	14	16	16					170,798
17	Optical goods.	16	407	7	28	10	26	336	De	375	Ja	288	455	374	65	11	5		762,406
18	Paints.	17	293	4	37	63	31	158	Se	173	Fe	147	160	136	24				1,284,378
19	Paper and wood pulp.	26	2,382	4	76	53	35	2,214	Oc	2,395	Ap	2,008	2,293	2,191	98	2	2		13,030,002
20	Paper goods, not elsewhere specified.	6	342		15	6	10	311	De	379	Je	278	378	224	118	4	32		1,034,288
21	Patent medicines and compounds.	83	749	53	83	109	84	420					516	158	340	1	17		1,760,093
22	Patent and proprietary medicines.	63	631	43	61	78	70	379	De	463	Ap	324	470	123	329	1	17		1,525,523
23	Patent and proprietary compounds, including compounds not elsewhere specified.	20	118	10	22	31	14	41	Au	57	De <sup>3</sup>	31	46	35	11				234,570
24	Paving materials.	39	440	35	25	14	7	359	Jy	488	Fe	193	487	487					1,488,477
25	Perfumery and cosmetics.	10	66	6	8	3	1	48	Se <sup>3</sup>	49	Jy	47	50	15	22		13		118,219
26	Phonographs and graphophones.	13	2,368	3	57	36	94	2,178	De	2,321	Ja	1,895	2,330	1,952	358	20			4,766,616
27	Photographic materials.	4	38		7	2	5	24	De <sup>3</sup>	26	Se <sup>3</sup>	22	27	22	5				116,379
28	Photo-engraving.	6	133	2	13	19	8	91	De	103	Je	84	101	93	8				120,221
29	Pickles, preserves, and sauces.	30	1,410	20	52	78	39	1,221	Se	2,589	My	094	1,395	760	632	3			4,151,228
30	Plumbers' supplies, not elsewhere specified.	6	556		28	16	9	503	De	717	Ja	330	696	665	26	5			1,584,324
31	Pottery.	8	843	4	35	35	22	747	De	810	Ja	695	814	702	98	12	2		2,556,061
32	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	16	227	10	16	13	20	168	No	226	Mh	132	189	145	44				804,324
33	Printing and publishing, book and job.	278	4,005	260	233	212	250	3,041					3,197	2,075	933	101	88		7,970,717
34	Job printing.	256	3,741	244	214	170	191	2,922	No	3,050	Ja	2,660	3,074	1,980	915	96	83		6,712,827
35	Book publishing and printing.	12	146	3	14	41	61	27	No <sup>3</sup>	32	Fe	23	25	10	8	2	5		1,094,521
36	Linotype work and typesetting.	10	118	13	5	1	7	92	Oc	104	Ja	82	98	85	10	3			172,369
37	Printing and publishing, music.	4	7	3				3	( <sup>o</sup> )	3	( <sup>o</sup> )	3	3	2	1				5,600
38	Printing and publishing, newspapers and periodicals.	559	5,957	500	454	871	621	3,511					3,646	2,817	783	44	2		10,931,688
39	Printing and publishing.	41	1,869	18	111	480	216	1,064	De <sup>3</sup>	1,093	Ja	1,031	1,118	1,037	75	6			3,458,010
40	Printing, publishing, and job printing.	445	3,808	459	289	361	317	2,442	Oc	2,501	Ja	2,300	2,523	1,777	706	38	2		7,189,829
41	Publishing without printing.	73	220	23	54	50	88	5	( <sup>o</sup> )	5	( <sup>o</sup> )	5	5	3	2				283,840
42	Pumps, not including power pumps.	11	2,504	13	193	838	265	1,195	De	1,509	Je	732	1,514	1,504	5	4	1		10,728,292
43	Pumps, steam.	4	869	1	24	74	34	736	De	778	Je	690	778	758	20				2,019,823
44	Roofing materials.	7	322	1	17	30	20	254	Oc	331	My	214	236	212	24				2,015,105
45	Rubber tires, tubes, and rubber goods, not elsewhere specified.	15	3,730	1	174	449	189	2,917	No	3,137	Ja	2,026	2,868	2,441	424		3		25,182,334
46	Saddlery and harness.	114	686	127	61	39	16	453	Ja	506	Jy	404	513	391	119	2	1		1,858,008
47	Sand-lime brick.	3	45		6	1	1	37	Ap	53	Ja	16	35	35					190,883
48	Scales and balances.	5	114		11	6	6	91	Oc	103	Ju	82	84	78	6				308,349
49	Screws, machine.	3	38	2	1	2		23	Se	46	Ja	22	88	35	3				71,892
50	Shirts.	14	2,100		48	17	44	1,991	No	2,159	Je	1,828	2,153	192	1,671	19	271		4,128,889
51	Show cases.	3	142		14	7	6	115	No	145	Ja	65	128	117	11				344,975
52	Signs and advertising novelties.	12	125	6	14	7	20	78	No	99	Ja	52	103	41	57	1	4		185,270
53	Slaughtering and meat packing.	57	6,617	59	132	617	118	5,691	Ja	6,664	Au	5,291	5,550	5,045	446	47	12		23,564,709
54	Smelting and refining, not from the ore.	4	337	3	25	31	21	257	Ja	277	De	233	233	226	7				2,944,604
55	Soap.	10	663	1	27	83	12	540	Se	585	De	500	501	325	160	1	6		3,762,673
56	Sporting and athletic goods.	5	290		13	25	18	234	De	269	Ja	180	300	127	147	17	9		465,134
57	Stamped and enameled ware, not elsewhere specified.	7	1,475	3	22	33	40	1,377	Oc	1,467	Mh	1,307	1,353	928	392	10	23		2,925,025
58	Stationery goods, not elsewhere specified.	7	301	4	25	25	20	227	Au	309	Fe	177	270	96	165	4	5		633,583
59	Steam fittings and steam and hot-water heating apparatus.	9	623	2	26	35	19	541					766	735	30	1			1,735,331
60	Radiators and cast-iron heating boilers.	5	412	2	11	25	11	363	De <sup>3</sup>	538	Mh	250	538	537		1			1,230,694
61	All other.	4	211		15	10	8	178	De	229	Oc	63	228	198	30				504,437
62	Stereotyping and electrotyping.	4	108	1	9	6	3	89	De	78	Ja	84	93	86	2	5			170,776
63	Stoves and hot-air furnaces.	25	1,988	5	108	162	57	1,656					1,802	1,779	19	3	1		5,320,903
64	Stoves and ranges.	18	1,791	5	89	143	44	1,510	Oc	1,683	Ja	1,140	1,636	1,625	8	3			4,819,999
65	Hot-air furnaces and fireless cookers.	7	197		19	13	14	146	No	175	My	123	166	154	11		1		509,904

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



# MANUFACTURES—INDIANA.

35

## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 141,338	Dollars. 65,000	Dollars. 383,042	Dollars. 7,878	Dollars. 14,412	Dollars. 32,008	Dollars. 1,424,282	Dollars. 21,922	Dollars. 2,487,263	Dollars. 1,041,069	905	120			191	594	1
10,522	1,000	80,047	3,827	7,107	765	250,092	607	440,545	183,756	26					26	2
6,650	1,000	82,814		5,400	677	239,777	420	303,709	153,512	22					22	3
3,872		6,833	3,827	1,707	88	16,315	277	46,836	30,244	4					4	4
115,928	46,521	406,571	3,478	19,725	161,174	1,036,072	73,835	3,066,799	1,366,292	1,729	1,070		10		649	100
83,070	33,651	355,724	3,478	18,858	132,060	1,493,382	55,587	2,726,568	1,177,596	926	370		10		546	6
32,858	12,870	50,847		867	29,084	143,200	18,248	370,231	208,603	803	700				103	7
10,560	3,594	32,583		321	7,369	47,527	5,798	131,660	78,341	503	278				225	8
30,412	2,558	63,907		5,380	6,618	420,405	6,225	667,978	232,348	161	71				90	9
37,622	10,383	385,912	603	13,754	3,334	160,302	7,162	784,559	617,105	374			33		341	10
89,215	40,500	511,618		2,028	110,802	1,801,025	35,486	2,968,160	1,131,049	805					805	11
5,488	1,402	16,679	210	1,350	871	52,311	8,047	78,139	17,181	242	216				26	12
80,064	83,836	1,228,834	313	2,935	105,259	1,057,950	43,319	3,148,410	2,047,141	825			20		805	13
203,638	224,249	1,578,020			187,659	3,203,660	82,377	6,978,030	3,601,093	2,184	1,715				469	14
1,000		15,535		262	5,431	20,623	4,720	179,288	153,936	39			4		25	15
20,446	5,809	15,273		430	10,472	102,278	2,760	298,365	133,311	35	20				15	16
81,603	20,731	206,211		21,755	35,907	403,103	9,093	1,211,880	739,084	230					230	17
77,304	116,317	135,878		27,736	40,659	1,627,729	12,907	2,419,500	778,804	731			8		723	18
208,835	144,741	2,238,032	1,020	25,726	623,689	8,106,886	1,407,310	15,120,059	5,065,893	25,485	20,667	2,021	42	350	1,565	19
35,106	15,070	330,204		460	108,212	2,337,125	51,304	3,362,010	973,581	1,838	800			800	238	20
203,061	197,814	327,920	19,472	25,895	180,777	1,366,629	16,827	4,481,247	3,097,891	469	140		10		319	21
285,841	128,963	289,347	16,304	20,284	170,420	1,173,748	11,827	3,974,925	2,789,351	219	100		4		115	22
57,220	68,851	38,573	108	5,611	10,357	192,781	5,000	506,321	308,540	250	40		6		204	23
64,232	24,573	327,905	2,550	13,994	16,173	202,480	100,242	902,718	599,996	8,533	5,337		170		3,020	24
22,398	4,206	21,621		3,872	2,404	108,550	953	297,405	127,902	18					18	25
305,533	87,677	1,757,070	2,076	3,301	217,951	3,626,077	83,468	7,997,967	3,697,960	2,697	1,650	150			1,107	26
19,520	5,341	22,354		3,084	1,323	75,473	1,357	179,710	102,880	32			6		26	27
38,352	20,344	136,790		7,411	6,704	45,185	3,688	307,908	319,035	101					101	28
172,342	174,997	802,606	498	10,177	128,030	5,730,475	73,045	8,924,581	3,121,061	1,602	1,222		11	50	319	29
63,372	20,439	528,150	505	100	12,182	1,020,900	50,219	1,934,769	867,590	1,508	997				571	30
105,291	71,048	881,217	250	6,314	177,116	621,608	156,462	2,624,121	1,816,161	711	505		5		201	31
39,671	23,700	146,790		5,170	14,872	2,057,154	7,690	2,482,105	417,261	232	158				74	32
651,554	461,040	2,790,208	360,204	174,074	136,930	4,110,908	102,028	10,741,232	6,520,196	8,167	810			54	2,303	33
601,226	362,110	2,651,011	114,042	170,450	129,596	4,070,907	94,647	9,927,337	5,761,723	3,108	810			54	2,244	34
42,408	93,824	10,408	245,902	828	5,402	12,353	2,570	567,406	552,540							35
7,920	5,106	128,780	200	2,790	1,851	35,685	4,811	246,420	205,933	59					59	36
900		2,778	7,131	1,602	18	410	66	17,238	10,822	2						37
1,110,505	1,477,048	3,718,805	839,240	175,457	344,108	5,475,746	212,080	10,184,687	13,496,852	6,178	69	5	406		5,608	38
375,970	733,345	1,388,140	40,207	58,147	184,220	2,358,747	67,532	7,623,650	5,107,380	2,006			3		2,003	39
631,172	600,016	2,325,705	108,642	104,977	155,852	2,990,943	143,785	10,256,417	7,114,689	4,170	69	5	403		3,993	40
163,354	137,687	4,960	990,391	12,333	4,027	120,056	772	1,305,611	1,184,783	2					2	41
620,591	1,786,416	1,399,682	150	2,970	285,702	2,388,802	72,094	10,165,589	7,704,093	3,832	200		4		3,928	42
195,102	130,022	975,547		4,010	231,930	1,042,858	93,127	3,287,442	2,151,457	1,145	650				495	43
62,823	98,495	207,819	3,228	444	50,522	1,556,701	127,032	2,758,969	1,074,326	1,379	240	750			380	44
535,900	796,785	3,017,677		4,565	475,057	11,600,824	415,952	20,883,098	8,806,892	11,096	3,855	2,125		600	5,116	45
115,683	70,737	440,219	472	47,713	38,107	1,409,086	22,965	2,520,166	1,087,215	605			33		510	46
12,222	1,626	46,407			1,126	41,754	11,606	141,759	88,500	517	517				70	47
21,865	13,616	93,404		900	2,568	82,619	6,453	309,691	220,189	70					77	48
1,400	1,088	32,999	604	455	523	38,794	2,725	99,555	58,036	95			18		57	49
126,939	70,246	1,072,575		12,761	115,111	6,333,037	30,307	8,900,333	2,542,899	1,382	1,325				288	50
38,120	11,676	88,476		1,200	10,886	345,241	13,554	576,433	217,033	288					31	51
38,187	15,438	54,139	15,644	4,422	2,077	153,827	1,802	371,025	218,905	31					288	52
590,882	923,409	4,070,261	8,077	25,208	647,568	121,003,378	686,316	134,028,372	12,330,032	11,395	6,076	2,038	13		2,668	53
144,496	89,054	434,500			151,544	3,325,608	84,628	4,890,444	1,480,208	915	305				610	54
70,639	100,954	532,091	8,672	4,258	382,657	3,016,713	53,888	5,678,183	2,697,582	1,247	174				1,073	55
33,437	38,353	176,638		3,045	26,967	355,955	8,690	511,394	140,749	183	100				83	56
94,920	82,844	1,332,301			379,799	1,868,021	106,850	5,248,288	3,273,411	2,202	1,100				1,102	57
66,733	30,400	150,412		7,542	67,702	769,367	5,423	1,278,264	504,474	205					205	58
77,552	54,194	659,278		1,720	30,582	1,105,328	88,355	2,329,547	1,135,864	750	360		9		381	59
29,888	35,865	440,469		300	0,415	764,572	50,304	1,547,924	724,048	265	210		9		46	60
47,664	13,329	218,809		1,420	21,167	340,750	29,051	781,623	411,216	485	150				335	61
28,493	9,609	99,672		4,320	2,422	90,478	8,471	288,908	180,969	281					281	62
338,785	528,739	2,075,645	8,631	17,413	152,430	3,053,042	128,447	7,761,870	4,579,781	2,380	375		22		2,483	63
291,501	420,570	1,815,786	7,331	12,503	144,816	2,579,951	122,684	6,809,092	4,106,457	2,709	375		22		2,312	64
47,194	108,169	159,850	1,300	4,910	7,023	473,691	5,763	952,778	473,324	171					171	65

<sup>1</sup> Same number reported for one or more other months.

<sup>2</sup> None reported for one or more other months.

<sup>3</sup> Same number reported throughout the year.



## MANUFACTURES—INDIANA.

TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.				Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—		Male.		Female.	Male.	Female.		
								Maximum month.	Minimum month.							

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

																	Dollars.
1	Structural ironwork, not made in steel works or rolling mills.	23	2,499	9	116	288	71	2,015	Ja	2,736	Oc	1,338	1,886	1,884	2		6,314,307
2	Surgical appliances	5	52	4	2	7	11	28	(*)	28	(*)	28	29	19	10		35,092
3	Tobacco, chewing and smoking, and snuff.	14	74	17	4	4		49					53	26	27		101,196
4	Plug or chewing.	4	35	5	1	3		26	De	30	Aug	22	29	12	17		61,594
5	Smoking and snuff	10	39	12	3	1		23	No	26	Jy	22	24	14	10		39,602
6	Tobacco, cigars	252	4,594	270	100	54	16	4,154	De	4,003	Ap	3,787	4,923	882	4,036	5	10,228,300
7	Tools, not elsewhere specified.	26	545	21	33	17	15	459					503	486	10	7	1,640,944
8	Machinists' tools.	13	194	10	18	8	5	153	De	193	Mh	115	206	203	2	1	329,208
9	All other	13	351	11	15	9	10	306	No	360	My	252	297	283	8	6	1,311,736
10	Toys and games	9	497	7	23	7	3	457	No	575	Ap	405	456	272	53	123	494,798
11	Trunks and valises	8	466	8	12	8	11	427	No	466	Ja	323	446	364	82		1,262,519
12	Varnishes	6	205	1	31	50	24	99	De	120	Ja	69	124	114	10		1,291,853
13	Vinegar and cider	3	18	2	3	2		11	Je	12	Se	10	14	11	3		109,828
14	Wall plaster and composition flooring.	6	19	1	4			14	Au	16	De	13	16	16			43,868
15	Washing machines and clothes wringers.	3	134		9	7	6	112	De	133	Ja	91	133	133			443,269
16	Windmills.	4	494	1	22	49	20	402	De	442	Je	382	434	433		1	1,971,042
17	Window and door screens and weather strips.	12	34	13				21	Je	28	De	16	24	24			59,425
18	Window shades and fixtures.	3	43	3		1	2	37	Se	52	Ja	25	43	16	27		149,278
19	Wirework, not elsewhere specified.	21	769	14	40	30	53	632					604	531	62	7	1,623,178
20	Woven-wire fencing	7	384	2	25	21	35	301	Ar	384	No	220	246	230	7		899,369
21	All other	14	385	12	15	9	18	331	Au	366	My	292	358	202	55	7	783,809
22	Wood preserving	5	227		15	29	6	177	No	211	Ja	117	166	166			1,222,671
23	Wood, turned and carved	31	937	18	51	21	25	822	Fe	855	Se	781	836	747	84	5	1,584,206
24	Wooden goods, not elsewhere specified.	13	439	10	25	16	14	374	Fe	396	No	343	411	336	74	1	661,008
25	Woolen goods	11	1,006	8	19	24	7	948	De	1,005	Fe	838	1,006	481	505	9	3,120,611
26	All other industries*	168	27,714	63	1,004	1,810	1,080	23,757									225,832,255

\*All other industries embrace—  
 Airplanes, seaplanes, and airships, and parts. 1  
 Aluminum manufactures, ingots. 1  
 Ammunition. 2  
 Artificial flowers. 1  
 Artists' materials, crayons. 1  
 Asbestos products, not including steam packing. 2  
 Babbitt and white metal. 1  
 Bags, other than paper, not including bags made in textile mills. 2  
 Bags, paper, exclusive of those made in paper mills. 2

Baking powders. 4  
 Belting, woven. 2  
 Belting, leather. 3  
 Blacking, stains, and dressings. 3  
 Bluing. 3  
 Boots and shoes, rubber. 1  
 Brushes. 3  
 Candles. 1  
 Cardboard, not made in paper mills. 1  
 Charcoal, not including production in the lumber and wood distillation industries. 1  
 Cheese. 2  
 Chewing gum. 1

China decorating, not including that done in potteries. 1  
 Coal-tar products. 1  
 Coke, not including gas-house coke. 5  
 Cordage and twine. 1  
 Corsets. 1  
 Crucibles, glass house pots, etc. 1  
 Dyeing and finishing textiles, exclusive of that done in textile mills. 2  
 Emery and other abrasive wheels. 2  
 Enameling. 1  
 Engraving, wood. 4  
 Envelopes. 1  
 Explosives. 2

Fancy articles, not elsewhere specified. 2  
 Feathers and plumes. 1  
 Files. 3  
 Fireworks. 2  
 Flax and hemp, dressed. 1  
 Foundry supplies. 2  
 Fuel, manufactured. 2  
 Furnishing goods, men's. 2  
 Furs, dressed. 2  
 Galvanizing. 1  
 Glucose and starch. 3  
 Hair work. 1  
 Hardware, saddlery. 2  
 Hats, straw. 1

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



# MANUFACTURES—INDIANA.

37

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 428,963	Dollars. 566,927	Dollars. 2,898,831	Dollars. 22,408	Dollars. 3,484	Dollars. 519,318	Dollars. 7,542,365	Dollars. 307,569	Dollars. 14,449,960	Dollars. 8,600,032	21,152	1,214	100	10,838	855	1
4,151	23,913	14,910	908	2,306	4,952	23,807	956	135,489	110,726	27	8	5	27	8	2
5,100	4,642	36,380		1,205	45,375	138,406	918	279,369	140,045	21			8		3
1,800	3,142	19,741		84	17,008	95,102	514	104,880	69,204	13	8	5			4
3,500	1,500	16,639		1,121	27,707	43,304	404	114,489	70,781	8			8		5
166,178	182,104	2,467,219	832	48,785	1,216,209	4,953,343	25,501	10,065,943	5,087,099	550	300	0	250	150	6
94,179	34,601	497,286	21,996	9,739	60,647	679,224	39,090	3,901,906	3,183,592	1,062	530	57	475		7
29,539	11,120	184,047	10,383	8,286	1,071	78,045	7,286	487,901	402,570	153			153		8
34,590	23,475	313,219	6,613	1,453	58,076	601,179	31,804	3,414,005	2,781,022	909	530	57	322		9
38,070	6,010	283,689	520	1,332	9,682	307,134	4,024	800,509	488,751	437	250	15	172	20	10
35,151	33,550	410,682		3,471	22,888	715,643	17,763	1,348,231	614,835	310	105		205	2	11
104,958	132,591	99,177		120	22,811	1,147,795	11,907	1,596,623	735,851	213	85		128		12
5,107	3,294	7,845		120	1,250	60,851	401	104,017	30,765	33	20		13		13
2,998		13,500		270	590	24,150	1,585	49,773	24,038	216	125		91		14
39,650	9,753	120,400			2,396	521,902	5,400	880,967	353,665	387	35	25	327		15
76,885	96,145	338,065			40,449	856,020	30,018	1,556,315	670,271	1,885	920	85	850	30	16
		23,425		255	647	35,656	838	82,700	43,200	73		39	36		17
	2,510	14,417		60	282	144,033	1,246	188,758	43,479	16		14	2	4	18
173,985	83,387	509,781	61,407	4,583	58,132	2,038,018	36,279	4,200,267	1,539,070	1,462	225	09	1,168	40	19
91,421	47,493	315,208		500	45,324	1,764,303	19,920	2,553,416	800,133	701		35	720		20
82,564	35,894	254,513	61,407	4,083	12,808	878,656	16,369	1,025,851	730,837	701	225	34	442		21
46,036	23,506	211,304		1,878	20,080	1,104,500	48,000	1,789,012	670,740	700	769		170		22
132,138	57,909	650,094	1,220	4,721	24,898	1,772,743	10,324	3,048,772	1,265,705	2,628	2,365	19	214	10	23
63,500	36,188	322,763		2,158	9,445	590,096	17,884	1,258,009	650,929	800	540	6	344		24
118,483	113,296	725,120		480	100,552	3,248,027	71,956	4,542,067	1,222,084	1,860	1,400		200	260	25
3,635,326	3,804,726	31,618,581	153,777	50,937	22,000,035	181,085,300	44,768,524	320,923,997	101,074,183	175,775	35,925	54,865	58,291	1,250	25,454

Instruments, professional and scientific.....	4	Photographic apparatus.....	1
Iron and steel, blast furnaces.....	3	Plated ware, knives, forks, spoons, and flatware.....	1
Iron and steel, cast-iron pipe.....	1	Printing materials.....	1
Iron and steel, doors and shutters.....	2	Pulp goods.....	2
Iron and steel, wrought pipe.....	2	Refrigerators.....	3
Lard, prime, not made in slaughtering and meat-packing establishments.....	1	Regalia, and society badges and emblems.....	1
Liquors, distilled, grain alcohol.....	1	Safes.....	1
Matches.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	2
Musical instruments, piano materials.....	2	Saws.....	2
Oilcloth and linoleum, floor.....	1	Sewing-machine cases.....	2
Ordnance and accessories.....	1	Shipbuilding, steel, repair work only.....	2
Petroleum, refining.....	3		

<sup>1</sup> Same number reported throughout the year.

Shipbuilding, wooden, including boat-building.....	5	Tinware, not elsewhere specified.....	1
Smelting and refining, lead.....	2	Typewriters and supplies.....	2
Smelting and refining, zinc.....	2	Umbrellas and canes.....	2
Springs, steel, automobile, not made in steel works or rolling mills.....	3	Upholstering materials, excelsior, and curled hair.....	4
Statuary and art goods.....	1	Vault lights and ventilators.....	1
Steam packing.....	3	Wall paper, not made in paper mills.....	2
Steel barrels, drums, and tanks, portable.....	2	Waste.....	1
Stoves, gas and oil.....	2	Watches.....	1
Sugar, beet.....	1	Wire.....	2
Textile machinery and parts.....	2	Woolpulling.....	1
Tin plate and terneplate.....	2		

<sup>2</sup> Same number reported for one or more other months



## MANUFACTURES—INDIANA.

TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members,	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

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

1	EVANSVILLE—All industries.	299	14,452	194	596	731	405	12,526	No	13305	Ap	11915	13,280	9,085	4,066	64	65	Dollars.
2	Agricultural implements.	4	318	—	29	26	8	255	No	268	My	234	257	256	1	—	—	1,692,540
3	Automobile repairing.	12	49	16	1	—	2	30	My	33	No	28	31	31	—	—	—	28,498
4	Bread and other bakery products.	24	202	27	9	37	5	124	De	139	Fe	108	140	124	14	2	—	500,678
5	Carriage and wagon materials.	4	211	—	6	2	6	197	No	218	Ap	169	216	215	1	—	—	539,065
6	Clothing, men's and youths'.	5	288	1	9	17	11	260	De	278	Mh	210	278	26	245	—	7	617,862
7	Coffee, roasting and grinding.	5	24	3	2	5	3	11	De	12	Se	10	12	7	—	—	—	125,800
8	Confectionery and ice cream.	9	44	10	3	—	4	27	Oc	20	Ja	13	19	10	0	—	—	60,200
9	Confectionery.	6	29	7	2	—	4	10	Au	19	De	0	18	15	3	—	—	37,064
10	Ice cream.	3	15	3	1	—	—	11	De	59	Ja	38	60	59	—	—	—	23,196
11	Copper, tin, and sheet-iron work.	14	67	11	4	1	—	51	De	17	Jy	14	17	17	—	—	1	70,045
12	Electroplating.	3	18	3	—	—	—	15	Oc	310	Mh	234	285	279	0	—	—	7,565
13	Flour-mill and gristmill products.	7	349	4	20	15	41	269	Oc	310	Mh	234	285	279	0	—	—	3,222,515
14	Foundry and machine-shop products.	8	171	2	15	4	2	145	No	185	Mh	123	172	172	—	—	—	395,657
15	Furniture.	24	2,472	2	101	108	34	2,227	De	2,350	Mh	1,999	2,350	2,232	117	1	—	6,179,041
16	Lumber, planing-mill products, not including planing mills connected with sawmills.	7	178	1	25	15	3	134	Je	148	Ja	99	147	142	1	4	—	745,555
17	Marble and stone work, except slate.	5	70	2	6	14	5	43	Jy	53	Ja	32	49	49	—	—	—	172,037
18	Mineral and carbonated waters.	6	45	1	6	2	3	33	Jy	44	Ja	25	31	31	—	—	—	90,524
19	Printing and publishing, job printing.	11	162	5	14	7	6	130	De	138	Fe	121	138	101	33	3	1	305,078
20	Printing and publishing, newspapers and periodicals.	5	233	2	16	42	36	137	Oc	144	Ja	128	139	130	9	—	—	425,545
21	Saddlery and harness.	7	94	7	10	6	1	70	De	77	Ja	63	78	51	27	—	—	158,716
22	Stoves and ranges.	4	421	—	18	29	5	369	Oc	388	Ja	335	382	382	—	—	—	1,114,203
23	Tobacco, cigars.	22	2,770	24	47	31	7	2,661	De	3,058	Jy	2,462	3,058	219	2,839	—	—	4,641,097
24	All other industries*.	113	6,206	70	255	370	223	5,348	—	—	—	—	5,403	4,537	756	53	57	26,173,733

\*All other industries embrace—

Artificial stone products.	2	Butter.	3	Coffins, burial cases, and undertakers' goods.	1	Emery and other abrasive wheels.	1
Automobile bodies and parts.	3	Carpets, rag.	1	Cooperage, hogsheads and barrels.	3	Enameling.	1
Awning, tents, and sails.	1	Carriages and wagons, including repairs.	6	Cotton goods.	1	Engines, steam, gas, and water.	3
Belting, leather.	1	Cars and general shop construction and repairs by electric-railroad companies.	1	Cutlery and edge tools, axes and hatchets.	1	Engraving, steel and copper plate, including plate printing.	1
Boxes, cigar.	2	Cars and general shop construction and repairs by steam-railroad companies.	2	Druggists' preparations.	1	Flavoring extracts.	2
Boxes, set-up paper boxes.	1	—	—	Electrical machinery, apparatus, and supplies.	2	Food preparations, not elsewhere specified.	4
Boxes, wooden packing, except cigar boxes.	2	—	—	—	—	—	—
Brass and bronze products.	2	—	—	—	—	—	—
Brooms, from broom corn.	4	—	—	—	—	—	—

1	FORT WAYNE—All industries.	247	20,462	204	616	2,220	1,078	16,344	De	18,008	Ja	15,163	17,948	13,326	4,257	162	203	55,302,631
2	Automobile bodies and parts.	6	37	5	2	1	—	29	Jy	32	Ja	25	30	26	4	—	—	106,110
3	Automobile repairing.	3	16	3	—	—	—	12	De	12	No	11	12	12	—	—	—	1,104,424
4	Bread and other bakery products.	26	659	24	39	65	24	507	No	543	Mh	470	537	363	155	9	10	1,104,869
5	Clothing, women's.	6	405	2	15	23	14	351	My	362	Au	337	357	16	341	—	—	312,693
6	Confectionery and ice cream.	9	182	10	9	18	7	138	Oc	149	Mh	123	153	66	79	—	—	404,811
7	Copper, tin, and sheet-iron work.	11	75	15	7	2	1	60	Se	60	Fe	42	59	59	—	—	—	95,874
8	Foundry and machine-shop products.	18	984	10	43	50	13	893	Ja	1,027	Au	718	886	882	4	—	—	3,438,574
9	Ice, manufactured.	3	46	2	6	3	2	33	Jy	69	Ja	15	26	26	—	—	—	163,752
10	Lumber, planing-mill products, not including planing mills connected with sawmills.	4	132	4	7	7	3	111	No	132	Ja	84	130	130	—	—	—	677,338
11	Lumber, planing-mill products, not including planing mills connected with sawmills.	9	102	11	6	1	2	82	De	91	Ja	71	91	91	—	—	—	244,447
12	Marble and stone work.	8	43	13	3	—	—	27	—	—	—	—	35	35	—	—	—	36,283
13	Monuments and tombstones.	4	14	8	—	—	—	6	(9)	6	(9)	6	6	6	—	—	—	14,160
14	Other marble and stone work, except slate.	4	29	5	3	—	—	21	Oc	31	Fe	3	29	29	—	—	—	22,123
15	Mineral and soda waters.	5	31	6	1	—	1	23	Au	27	Fe	19	23	20	—	3	—	45,208
16	Optical goods.	3	32	1	4	5	1	21	De	22	Oc	20	22	17	—	—	—	32,315
17	Patent medicines and compounds.	8	128	7	6	5	9	101	De	126	Ap	70	126	24	90	—	12	210,438
18	Printing and publishing, book and job.	16	350	15	23	23	30	254	—	—	—	—	279	185	84	8	2	571,344
19	Job printing.	13	323	9	19	24	27	244	De	266	Ap	220	266	173	84	7	2	540,391
20	Book publishing, linotype work.	3	27	6	4	4	3	10	De	13	Ja	7	13	12	—	—	—	30,953
21	Tobacco, cigars.	26	184	27	5	3	1	148	No	179	Ap	66	176	149	27	—	—	209,458
22	All other industries*.	86	17,056	49	440	2,009	969	13,589	—	—	—	—	15,006	11,225	3,468	142	171	47,635,671

\*All other industries embrace—

Artificial stone products.	2	Brass and bronze products.	1	Clothing, men's.	2	Flour-mill and gristmill products.	2
Awning, tents, and sails.	2	Brooms, from broom corn.	1	Coffee, roasting and grinding.	3	Fur goods.	4
Bags, paper, exclusive of those made in paper mills.	1	Butter.	3	Condensed milk.	1	Furniture, store and office fixtures.	1
Belting, leather.	1	Carpets, rag.	1	Druggists' preparations.	1	Gas, illuminating and heating.	1
Boxes, cigar.	1	Cars and general shop construction and repairs by electric-railroad companies.	1	Electrical machinery, apparatus, and supplies.	4	Gas machines.	1
Boxes, paper and other, not elsewhere specified.	2	Cars and general shop construction and repairs by steam-railroad companies.	3	Engraving, steel and copper plate, including plate printing.	1	Glass, cutting, staining, and ornamenting.	2
—	—	Cleansing and polishing preparations.	1	Flavoring extracts.	1	Gloves and mittens, leather.	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-halt or transmitted power from neighboring power plants).

3 Excludes Gary, to avoid disclosure of individual operations.



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 1,803,686	Dollars. 1,353,900	Dollars. 10,707,087	Dollars. 20,788	Dollars. 91,418	Dollars. 2,409,257	Dollars. 43,138,706	Dollars. 1,010,086	Dollars. 70,230,419	Dollars. 26,081,627	25,007	15,052	207	23	.....	0,635	3,564	1
99,450	43,555	257,070	5,000	2,000	31,992	544,952	49,780	1,520,534	925,802	737	370	.....	.....	.....	367	.....	2
1,500	1,400	31,299	.....	5,235	403	17,207	1,524	74,362	55,631	54	.....	.....	.....	.....	54	.....	3
24,337	37,524	135,431	.....	5,390	7,203	721,444	20,392	1,136,527	394,691	222	.....	.....	.....	.....	222	.....	4
26,359	8,018	169,658	.....	44	20,774	704,700	13,987	1,115,637	396,350	1,088	275	.....	.....	.....	813	.....	5
28,715	65,577	111,548	.....	7,500	35,766	527,242	3,965	930,693	399,486	74	.....	.....	.....	.....	74	.....	6
2,800	6,728	8,722	.....	1,380	918	254,062	1,826	310,797	54,909	79	25	.....	.....	.....	54	.....	7
3,440	2,873	18,585	.....	3,762	3,523	77,580	1,466	145,466	66,420	19	.....	.....	.....	.....	19	.....	8
2,940	2,873	9,155	.....	3,102	991	51,773	959	91,077	38,345	7	.....	.....	.....	.....	7	.....	9
500	.....	9,430	.....	600	2,532	25,807	507	54,389	28,075	12	.....	.....	.....	.....	12	.....	10
6,921	1,112	57,233	.....	2,745	783	65,746	664	109,322	102,912	9	.....	.....	.....	.....	9	.....	11
.....	.....	13,923	.....	912	101	7,109	810	25,738	17,759	45	.....	.....	.....	.....	45	.....	12
78,675	50,654	263,904	.....	86,610	0,475,169	68,278	10,514,518	971,071	2,106	1,941	125	.....	.....	.....	40	378	13
31,722	5,038	165,903	.....	1,732	13,006	177,723	10,713	403,827	275,391	293	155	.....	1	.....	137	.....	14
313,817	246,306	1,879,461	.....	3,625	202,149	4,024,233	67,576	8,605,180	4,513,380	4,758	3,685	22	.....	.....	1,051	287	15
45,405	16,870	94,828	4,200	190	8,229	428,538	13,276	739,412	297,598	925	325	.....	.....	.....	000	.....	16
15,237	33,632	48,203	2,470	.....	2,001	124,541	3,401	341,201	213,250	181	.....	.....	.....	.....	181	.....	17
11,050	4,207	34,443	.....	1,560	20,470	211,644	1,703	357,401	144,054	58	.....	.....	.....	.....	58	.....	18
31,257	16,589	111,754	.....	4,725	6,145	151,032	0,820	118,841	200,330	117	.....	.....	.....	.....	117	.....	19
63,090	72,212	170,557	2,050	3,889	29,740	179,086	11,269	789,802	599,457	231	.....	.....	.....	.....	231	.....	20
15,380	11,098	59,202	.....	4,800	1,693	211,244	2,131	350,946	137,671	47	.....	.....	.....	.....	47	.....	21
57,739	59,903	488,198	.....	42,064	451,731	35,756	1,540,177	1,052,090	624	225	.....	.....	.....	.....	399	.....	22
87,698	123,989	1,440,422	118	13,517	750,309	3,253,008	11,142	6,207,601	3,032,451	478	300	.....	.....	.....	178	160	23
889,114	540,609	6,138,283	6,950	28,352	1,053,335	21,529,105	683,548	34,413,008	12,200,415	12,802	7,751	150	22	.....	4,630	2,749	24

Gas, illuminating and heating.....	1	Lumber and timber products.....	2	Paper and wood pulp.....	1	Signs and advertising novelties.....	1
Glass.....	1	Mattresses and spring beds, not elsewhere specified.....	5	Patent and proprietary medicines.....	5	Slaughtering and meat packing.....	4
Hand stamps.....	1	Millinery and lace goods, trimmed hats and hat frames.....	1	Perfumery and cosmetics.....	1	Stamped ware, not elsewhere specified.....	2
Hardware, piano and organ.....	1	Mirrors, framed and unframed, not elsewhere specified.....	1	Pickles and sauces.....	2	Statuary and art goods.....	1
Hardware, saddlery.....	1	Models and patterns, not including paper patterns.....	2	Plumbers' supplies, not elsewhere specified.....	1	Structural ironwork, not made in steel works or rolling mills.....	3
House-furnishing goods, mops and dusters.....	2	Paints.....	2	Pottery, chinaware.....	2	Tobacco, chewing and smoking.....	5
Ice, manufactured.....	2	.....	.....	Pumps, not including power pumps.....	1	Trunks and valises.....	1
Ink, writing.....	1	.....	.....	Shipbuilding, wooden, including boat building.....	1	Vinegar.....	1
Lamps.....	1	.....	.....	.....	.....	Wood preserving.....	1
Liquors, malt.....	2	.....	.....	.....	.....	.....	.....

2,891,969	4,357,876	17,434,805	70,938	150,935	1,600,095	36,495,441	1,413,054	76,713,262	38,804,767	43,431	10,488	400	40	.....	32,503	2,884	1
2,840	2,100	35,190	.....	3,696	610	45,625	1,168	115,217	68,424	21	.....	.....	.....	.....	21	.....	2
.....	900	15,939	.....	2,040	66	19,730	536	48,782	28,516	9	3	.....	.....	.....	6	.....	3
82,870	147,120	498,240	17,105	20,071	120,350	2,069,358	49,522	3,802,040	1,743,100	784	80	40	.....	.....	664	.....	4
45,966	70,208	156,169	2,513	5,705	4,965	444,417	3,089	803,409	355,903	53	.....	.....	.....	.....	53	.....	5
47,725	53,394	97,329	.....	10,585	55,859	576,422	9,244	896,256	310,590	225	100	.....	.....	.....	125	1	6
9,624	2,566	82,027	.....	4,564	1,599	147,938	973	283,475	134,574	20	.....	.....	.....	.....	20	.....	7
125,561	89,355	989,553	1,117	7,470	323,647	1,282,977	56,491	3,903,115	2,623,947	1,657	250	.....	.....	.....	1,407	.....	8
12,840	6,120	34,358	1,573	48	3,256	24,177	27,979	201,372	149,216	580	550	.....	.....	.....	30	.....	9
37,100	16,347	98,329	.....	0,084	5,311	295,855	11,378	523,806	210,573	998	100	.....	.....	.....	898	.....	10
15,190	3,230	87,146	.....	2,500	3,058	336,165	8,314	505,428	160,949	703	150	.....	.....	.....	643	.....	11
4,950	.....	33,497	750	3,924	407	35,779	1,213	116,828	79,836	108	.....	.....	.....	.....	108	.....	12
4,950	.....	8,536	750	504	156	13,156	341	32,261	18,764	13	.....	.....	.....	.....	13	.....	13
.....	.....	24,961	.....	3,420	251	22,623	872	84,567	61,072	95	.....	.....	.....	.....	95	.....	14
1,140	420	24,602	.....	1,020	11,020	73,337	1,461	146,252	71,454	56	25	.....	.....	.....	31	.....	15
10,730	7,420	24,659	.....	4,064	684	22,754	501	97,274	74,019	7	.....	.....	.....	.....	7	.....	16
90,966	11,043	102,099	.....	6,476	10,170	289,120	2,589	933,599	641,890	65	.....	.....	.....	.....	55	.....	17
50,644	32,534	285,457	22,022	15,521	9,661	353,254	8,964	868,875	500,657	178	.....	.....	.....	.....	178	.....	18
40,380	28,667	268,165	21,104	14,709	9,507	351,928	8,262	832,244	472,054	175	.....	.....	.....	.....	175	.....	19
4,264	3,867	17,292	1,818	722	54	1,326	702	36,631	34,603	3	.....	.....	.....	.....	3	.....	20
9,939	4,854	152,651	.....	0,826	48,793	200,438	1,769	495,131	292,924	6	.....	.....	.....	.....	6	.....	21
2,343,884	3,910,256	14,717,500	24,958	50,341	993,830	30,278,395	1,227,863	62,852,403	31,346,145	37,881	9,230	400	.....	.....	28,251	2,883	22

Gloves and mittens, cloth, not including gloves made in textile mills.....	3	Mattresses and spring beds, not elsewhere specified.....	1	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	1	Slaughtering and meat packing.....	3
Grease and tallow, not including lubricating greases.....	1	Models and patterns, not including paper patterns.....	1	Printing and publishing, newspapers and periodicals.....	4	Soap.....	1
Hand stamps.....	1	Musical instruments, pianos.....	1	Pumps, not including power pumps.....	3	Stoves and ranges.....	1
Iron and steel, steel works and rolling mills.....	1	Paints.....	1	Pumps, steam.....	1	Vinegar.....	1
Knit goods.....	3	Pickles and sauces.....	1	Saddlery and harness.....	1	Washing machines and clothes wringers.....	1
Liquors, malt.....	2	Plumbers' supplies, not elsewhere specified.....	1	Shipbuilding, steel, repair work only.....	1	Window and door screens and weather strips.....	2
.....	.....	.....	.....	.....	.....	Wood, turned and carved.....	1

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> Same number reported throughout the year.



## MANUFACTURES—INDIANA.

TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.				
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.			
								Maximum month.	Minimum month.								

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

		1,004	61,006	600	2,772	4,843	2,814	49,977	De 55,319	Mh 45,289	54,912	44,513	9,982	245	172	Dollars. 207,544,404
1	INDIANAPOLIS—All industries															
2	Artificial stone products.....	12	93	7	18	5	4	59	Au 130	Fe 28	49	49	.....	.....	.....	251,288
3	Automobile bodies and parts.....	40	3,192	25	144	151	131	2,741	Oc 3,145	Fe 1,980	3,350	2,957	391	2	.....	9,488,638
4	Automobiles.....	7	6,090	.....	70	448	239	5,843	De 7,777	Fe 4,895	7,056	6,094	602	.....	.....	32,733,544
5	Automobile repairing.....	10	121	5	13	4	3	96	Mh 109	Ja 86	94	92	2	.....	.....	83,988
6	Awnings, tents, and sails.....	0	63	0	0	4	4	43	Jy <sup>3</sup> 65	Fe <sup>3</sup> 24	40	21	19	.....	.....	175,350
7	Bookbinding and blank-book making.	11	76	8	9	.....	1	57	Oc 64	Mh <sup>3</sup> 52	62	33	26	1	2	97,524
8	Boxes, paper and other, not elsewhere specified.	4	377	.....	25	16	17	319	De 355	Fe 302	309	101	201	.....	7	748,652
9	Boxes, wooden packing, except cigar boxes.	7	174	5	10	1	3	155	No 178	My 124	166	138	20	8	.....	323,995
10	Brass, bronze, and copper products..	8	391	3	22	12	4	350	De 437	Fe 286	451	447	3	1	.....	568,317
11	Bread and other bakery products....	88	1,493	92	58	176	67	1,100	De 1,166	Fe 1,043	1,171	750	409	12	.....	3,468,770
12	Brooms.....	6	143	3	12	3	6	119	No 142	Ap 97	138	99	39	.....	.....	235,259
13	Butter.....	6	297	.....	25	21	32	219	Je 269	Ja 161	222	136	86	.....	.....	677,538
14	Carpets, rug.....	4	43	8	2	2	2	29	My 39	Ja 12	33	14	19	.....	.....	53,527
15	Carriages and wagons, including repairs.	3	76	1	7	.....	3	65	Jy 72	Ja 57	68	68	.....	.....	.....	79,568
16	Cars and general shop construction and repairs by steam-railroad companies.	13	2,994	.....	26	134	29	2,805	De 3,166	Ap 2,432	3,168	3,138	30	.....	.....	2,370,944
17	Chemicals.....	3	70	.....	7	15	13	35	Ja 49	Je 25	38	38	.....	.....	.....	625,427
18	Cleansing and polishing preparations.	6	120	2	11	51	5	51	Ja 58	Je 41	56	19	37	.....	.....	255,499
19	Clothing, men's.....	8	1,891	7	47	94	115	1,628	Oc 1,755	Ja 1,317	1,750	436	1,276	9	29	2,962,303
20	Clothing, women's.....	9	591	2	29	38	14	508	No 569	Mh 429	497	52	441	1	3	930,326
21	Coffee, roasting and grinding.....	10	177	7	21	49	20	80	No <sup>3</sup> 97	My 61	92	65	25	.....	2	1,285,956
22	Confectionery and ice cream.....	29	1,013	24	51	104	29	805	No 734	Jy 541	593	181	365	11	36	2,261,681
23	Confectionery.....	21	811	18	30	99	22	642	No 734	Jy 541	425	22	359	8	36	1,653,910
24	Ice cream.....	8	202	6	21	5	7	163	Jy <sup>3</sup> 205	Fe <sup>3</sup> 125	168	159	6	3	.....	607,771
25	Copper, tin, and sheet-iron work.....	25	224	19	19	11	9	166	No <sup>3</sup> 195	Fe <sup>3</sup> 138	199	188	11	.....	.....	457,979
26	Dairymen's and poultrymen's supplies.	3	62	.....	8	1	3	50	No 65	Ap 42	31	30	.....	1	.....	155,751
27	Electrical machinery, apparatus, and supplies.	16	2,315	1	47	294	209	1,764	De 2,375	Ja 1,319	1,888	1,628	259	.....	1	7,294,621
28	Flour-mill and gristmill products....	7	523	2	22	60	18	421	Se 485	Mh 381	429	425	4	.....	.....	4,796,180
29	Foundry and machine-shop products	71	7,268	33	248	669	458	5,830	.....	.....	6,703	5,829	929	5	.....	15,161,476
30	Boiler shops, foundries, and machine-shop and foundry combined.	19	4,338	7	130	197	172	3,832	De 4,514	Mh 2,475	4,512	3,919	593	.....	.....	7,150,373
31	Machine shops.....	52	2,030	26	118	473	286	2,028	De 2,286	Ap 1,800	2,251	1,910	336	5	.....	8,011,103
32	Furniture.....	27	1,988	15	78	105	44	1,746	No 1,456	Ja 1,221	1,870	1,657	178	34	1	3,911,591
33	Wood, rattan, and willow furniture.	20	1,558	12	62	85	30	1,869	.....	.....	1,446	1,275	138	32	1	3,093,012
34	Metal furniture, and store and office fixtures.	7	430	3	16	20	14	377	De 422	Ja 341	424	382	40	2	.....	818,579
35	Grease and tallow, not including lubricating greases.	3	36	.....	1	.....	1	34	Au 41	Je 22	36	36	.....	.....	.....	232,086
36	House-furnishing goods, not elsewhere specified.	6	20	6	.....	1	.....	13	De <sup>3</sup> 14	Se <sup>3</sup> 13	14	11	3	.....	.....	51,114
37	Ice, manufactured.....	12	288	1	46	15	13	213	Jy 297	Ja 145	104	162	2	.....	.....	1,982,637
38	Iron and steel, welding.....	5	14	5	.....	1	.....	8	Se 10	Oc 7	8	8	.....	.....	.....	7,810
39	Lumber and timber products.....	8	437	.....	24	17	5	391	No 423	Ja 324	402	392	10	.....	.....	1,851,431
40	Lumber, planing-mill products, not including planing mills connected with sawmills.	24	422	4	61	34	16	307	De <sup>3</sup> 348	Ja 246	348	345	3	.....	.....	2,058,179
41	Marble and stone work.....	9	88	9	11	6	.....	62	.....	.....	88	86	.....	.....	.....	328,571
42	Monuments and tombstones.....	4	28	5	3	2	.....	18	My 20	De <sup>3</sup> 16	16	16	.....	.....	.....	74,966
43	Other marble and stone work, except slate.	5	60	4	8	4	.....	44	No 84	Fe 10	70	70	.....	.....	.....	253,605
44	Mineral and carbonated waters.....	6	83	1	11	7	2	62	Au 95	Mh <sup>3</sup> 41	50	49	1	.....	.....	196,615
45	Models and patterns, not including paper patterns.	13	162	18	10	2	3	129	Se 162	Mh 88	101	100	1	.....	.....	130,629
46	Optical goods.....	7	296	2	19	4	21	250	No 327	Je 118	325	284	26	11	4	561,013
47	Paints.....	8	208	.....	23	56	23	105	Se 120	Fe <sup>3</sup> 96	108	89	19	.....	.....	905,195
48	Patent medicine and compounds.....	23	153	7	24	28	24	70	.....	.....	93	22	71	.....	.....	231,513
49	Patent and proprietary medicines.	12	114	4	11	19	21	59	De 77	Mh 42	80	9	71	.....	.....	157,505
50	Patent and proprietary compounds, including compounds not elsewhere specified.	11	39	3	13	9	3	11	Oc <sup>3</sup> 16	No <sup>3</sup> 6	13	13	.....	.....	.....	74,008
51	Pickles, preserves, and sauces.....	5	61	3	4	5	4	45	No <sup>3</sup> 48	Fe 41	47	20	27	.....	.....	84,481
52	Printing and publishing, book and job.	89	1,013	76	99	136	149	1,153	.....	.....	1,190	818	341	24	7	3,831,179
53	Job printing.....	80	1,420	69	88	98	85	1,083	No 1,130	Ja 1,007	1,118	756	332	23	7	2,769,113
54	Book publishing, linotype work.	4	187	7	11	38	61	70	Au 75	Mh <sup>3</sup> 64	72	62	9	1	.....	1,112,066
55	Printing and publishing, music.....	4	7	3	1	.....	.....	3	( <sup>1</sup> ) 3	( <sup>1</sup> ) 3	3	2	1	.....	.....	5,090
56	Printing and publishing, newspapers and periodicals.	59	1,411	25	117	416	205	648	.....	.....	661	581	72	8	.....	2,032,313
57	Printing, publishing, and job printing.	25	1,314	16	87	395	170	646	De 668	Ja 629	659	579	72	8	.....	1,928,083
58	Publishing without printing.....	34	97	9	30	21	35	2	( <sup>1</sup> ) 2	( <sup>1</sup> ) 2	2	2	.....	.....	.....	104,230
59	Pumps, not including power pumps.	5	41	4	5	7	2	23	Au <sup>3</sup> 35	Fe <sup>3</sup> 34	34	32	1	.....	.....	181,993
60	Slaughtering and meat packing.....	13	5,333	9	594	66	.....	4,664	Ja 5,587	Ap 4,339	4,421	3,985	381	43	12	23,393,124
61	Soap.....	6	59	1	8	5	7	23	Se 53	Mh 23	51	24	24	.....	3	89,989
62	Stoves and hot-air furnaces.....	7	321	1	14	19	8	279	Oc 317	My 254	292	290	2	.....	.....	648,102
63	Structural ironwork, not made in steel works or rolling mills.	8	317	4	20	23	7	263	No 296	Mh 235	284	283	1	.....	.....	1,274,471
64	Tobacco, cigars.....	30	309	30	8	2	2	267	De 286	Au <sup>3</sup> 254	292	105	186	1	.....	271,805

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

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



# MANUFACTURES—INDIANA.

41

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
8,485,682	10,334,245	52,410,240	1,030,332	1,329,190	11,235,930	250,672,974	7,081,364	398,696,553	131,912,215	102,741	33,143	6,683	1,652	61,263	16,520	1		
35,066	8,828	65,935	686	3,667	1,146	159,926	1,880	359,346	197,531	173	4	20	91	58	175	2		
643,497	418,473	2,893,742	31,970	65,068	303,977	6,389,721	161,178	13,653,146	7,012,217	3,744		700		3,044		3		
711,846	763,595	7,492,490		60,062	3,434,431	42,015,336	269,805	59,736,346	17,451,115	8,022	550			7,472		4		
24,475	7,595	104,934	500	14,066	1,263	125,443	4,138	329,140	109,559	67				67		5		
13,311	11,231	27,142	304	3,744	14,561	108,531	1,492	226,723	110,700	28				28		6		
9,915	936	42,078		5,890	2,231	35,988	1,340	118,615	81,287	41				41		7		
64,305	35,093	170,938		0,862	27,528	742,088	7,370	1,232,020	483,462	235	60			175	20	8		
27,545	4,548	113,834		10,409	24,604	201,590	5,162	532,518	235,766	469	150			319		9		
88,240	19,355	407,159		6,210	25,404	829,032	31,512	1,585,132	727,588	799				799		10		
173,908	344,026	860,761	18,418	38,461	226,181	4,613,254	130,435	7,713,218	2,969,520	1,562	337			1,225	120	11		
38,820	13,782	100,205		1,830	14,173	224,377	2,702	486,911	259,832	175			115	60	9	12		
46,198	53,480	152,070		5,134	30,401	3,728,615	15,254	4,133,326	304,537	339	100			239		13		
2,900	8,500	17,622	110	420	85	5,857	1,457	62,605	55,291	40				142		14		
23,100	2,980	68,284		9,600	3,028	57,177	3,280	200,464	139,998	142				40		15		
322,567	100,225	3,950,520		220	474	2,243,060	191,648	6,838,631	4,403,023	1,609	1,530			169	559	16		
15,607	34,580	38,605		1,440	17,809	159,858	10,811	464,652	296,083	784				784		17		
32,804	51,054	28,747		5,945	4,161	278,140	2,203	536,847	255,504	74				74		18		
184,729	295,114	1,280,760		44,816	123,732	4,038,803	22,232	6,780,311	2,719,276	300				390		19		
81,955	97,018	383,802		16,372	35,178	1,003,165	4,072	1,756,288	748,451	148				148		20		
57,610	66,181	76,247		21,835	23,875	1,580,853	0,895	2,096,672	508,024	335				335		21		
192,611	196,646	514,047		72,958	287,354	2,877,823	63,580	4,716,443	1,775,034	1,068	545	160		903	340	22		
104,823	181,842	363,283		59,103	205,545	1,737,009	20,955	3,037,042	1,273,078	660	225			435	840	23		
57,788	14,804	150,761		13,855	21,809	1,140,814	30,631	1,079,401	501,955	1,008	320	160		528		24		
89,232	23,345	187,036	7,000	12,358	9,035	505,358	3,594	928,158	410,206	104				104		25		
12,168	2,337	44,305			3,135	110,282	1,182	188,318	76,854	43				43		26		
182,954	504,080	1,638,475		17,236	243,767	4,239,360	141,421	8,591,162	4,210,381	4,577	160		10	4,407		27		
117,835	117,494	470,540	28		127,909	12,464,073	146,677	14,573,978	1,963,228	6,838	3,050	800		2,088	2,415	28		
930,669	1,258,096	6,655,015	22,663	42,641	1,712,605	8,590,100	518,004	24,216,443	15,108,219	11,285	2,770		17	8,498	1,708	29		
451,672	417,812	4,577,998	218	8,495	1,528,396	5,241,946	309,154	13,779,303	8,138,203	6,785	2,290		12	4,483	1,660	30		
448,997	840,884	2,077,017	22,445	34,146	184,299	3,348,214	118,010	10,437,140	6,970,016	4,500	480		5	4,015	148	31		
221,586	268,538	1,509,158	1,072	21,879	62,305	3,132,118	90,030	6,153,938	2,933,700	2,900	1,615			1,294	570	32		
180,953	224,345	1,204,936		8,965	57,086	2,514,804	68,148	4,971,797	2,388,845	2,525	1,515			1,010	570	33		
41,533	44,243	304,222	1,972	12,914	5,219	617,314	21,882	1,184,141	544,945	384	100			284		34		
3,120	1,200	43,106			217	73,233	18,502	180,153	88,418	412	50	185		177		35		
	936	14,779	5,800	1,810	252	97,909	1,214	143,589	44,376	27				27		36		
80,480	32,211	230,689		2,900	41,421	206,259	105,945	1,075,357	673,153	3,312	3,166			146	207	37		
	520	7,745	1,500	2,182	50	5,300	531	25,720	10,799	11				11		38		
84,100	60,213	385,285	83,195	0,980	72,914	1,095,897	26,702	2,423,174	1,300,575	2,537	500			2,037		39		
143,738	45,444	309,637	1,865	10,987	42,702	933,020	39,695	7,738,126	765,411	2,463	325	60	20	2,058		40		
22,276	5,591	80,402	971	200	2,182	153,844	5,260	326,570	167,466	351	190			161		41		
5,792	1,710	29,797	276		486	98,001	1,341	174,017	74,585	50				50		42		
16,484	3,881	50,605	605	200	1,696	55,753	3,919	152,553	92,881	301	190			111		43		
26,930	11,311	62,880		1,080	13,995	200,786	0,020	432,080	166,230	99	20			79		44		
17,371	4,714	238,816	663	8,962	1,400	99,684	2,271	463,039	361,084	97			5	92		45		
52,973	18,587	214,131		15,206	33,004	382,014	7,778	884,500	494,714	175				175		46		
51,497	103,008	85,985		23,224	31,606	1,316,143	9,062	1,927,808	602,603	538				538		47		
68,587	53,798	53,085	6,168	0,440	86,704	292,701	4,093	750,933	459,289	171	20			151		48		
48,260	87,529	40,419	6,000	4,356	86,423	216,878	738	900,330	388,714	13				13		49		
20,327	16,209	12,666	168	5,093	281	75,823	3,355	140,703	70,525	158	20			138		50		
7,055	7,690	35,546		2,193	4,570	107,938	2,015	273,156	102,303	84	50		2	32		51		
356,770	304,046	1,101,878	317,881	104,398	64,116	1,828,773	38,207	5,238,539	3,371,559	1,386	150		30	1,206	31	52		
316,646	211,650	1,004,029	78,819	102,758	58,337	1,796,550	33,466	4,538,577	2,708,555	1,336	150		30	1,156	31	53		
40,124	92,387	97,849	239,062	1,640	5,779	32,217	4,741	699,962	603,091	50				50		54		
900		2,778	7,131	1,062	18	410	66	17,293	16,822	2			2			55		
328,448	676,033	869,039	453,519	47,616	134,720	1,052,186	38,905	6,332,766	4,341,615	1,473	60			1,413		56		
277,688	609,296	865,679	86,567	39,773	133,962	1,036,257	38,941	5,744,985	3,769,787	1,473	60			1,413		57		
50,760	67,637	3,300	300,952	7,843	767	15,929	24	587,781	571,828							58		
6,594	9,022	21,514		2,850	1,951	96,163	1,366	174,217	70,658	42				42		59		
380,235	742,609	4,384,320	2,602	19,464	535,322	95,557,080	432,810	805,746	8,815,850	8,410	4,602	2,038		1,770	3,326	60		
13,324	10,594	32,012	8,672	4,258	3,059	205,619	2,102	288,046	80,925	41	4			37		61		
68,268	39,681	353,235	7,008	4,952	22,884	343,906	21,204	1,056,610	691,500	389	150			239	80	62		
65,277	51,403	313,551	156	2,804	86,667	981,869	13,425	1,782,521	787,227	740	400			340	270	63		
15,278	3,286	171,850	167	9,179	88,322	365,187	2,514	734,408	366,707	2				2		64		

\* Same number reported for one or more months.

\* Same number reported throughout the year.



TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

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

INDIANAPOLIS—Con.														
1	Tools, not elsewhere specified.....	12	133	11	16	6	5	95			155	154	1	213,676
2	Machinists' tools.....	8	101	7	14	5	3	72	De <sup>1</sup> 126	Ja 32	126	125	1	177,243
3	All other.....	4	32	4	2	1	2	23	De 29	Fe 13	29	29		36,433
4	Trunks and valises.....	4	23	3	6		1	13	De <sup>1</sup> 16	Ap <sup>1</sup> 11	16	14	2	53,797
5	Varnishes.....	3	75		12	26	5	32	No <sup>1</sup> 38	Ja 24	39	38	1	524,567
6	Window and door screens.....	3	9	4				5	Se 8	De 3	5	5		12,860
7	All other industries *.....	193	16,713	98	603	1,493	829	13,690			14,504	10,992	3,375	74,873,616

*All other industries embrace--									
Agricultural implements.....	3	Cars and general shop construction and repairs by electric-railroad companies.....	2	Electroplating.....	2	Gas, illuminating and heating.....	1		
Artificial limbs.....	2			Engines, steam, gas, and water.....	2	Glass.....	1		
Artists' materials, crayons.....	1			Engraving, steel and copper plate, including plate printing.....	4	Glass, cutting, staining, and ornamenting.....	3		
Babbitt and white metal.....	1	Cars, steam-railroad, not including operations of railroad companies.....	2	Engraving, wood.....	2	Gloves and mittens, cloth, not including gloves made in textile mills.....	1		
Bags, other than paper, not including bags made in textile mills.....	1	Chewing gum.....	1	Envelopes.....	1	Glucose and starch.....	1		
Baskets, and rattan and willow ware.....	1	China decorating, not including that done in potteries.....	1	Fancy articles, not elsewhere specified.....	2	Glue, not elsewhere specified.....	2		
Belting, leather.....	1	Coffins, burial cases, and undertakers' goods.....	1	Fertilizers.....	1	Hair work.....	1		
Blacking, stains, and dressings.....	1	Cooperage, hogsheads and barrels.....	1	Flavoring extracts.....	2	Hand stamps.....	2		
Boxes, cigar.....	3	Cordage and twine.....	1	Food preparations, not elsewhere specified.....	3	Hardware.....	1		
Brick and tile, terra-cotta, and fire-clay products.....	2	Cotton goods.....	1	Fur goods.....	3	Hats and caps, other than felt, straw, and wool.....	1		
Brushes.....	1	Dental goods.....	2	Furnishing goods, men's.....	1	Hats, straw.....	3		
Canning and preserving, fruits and vegetables.....	5	Druggists' preparations.....	9	Galvanizing.....	1	Instruments, professional and scientific.....	2		

1	SOUTH BEND—All industries.	214	18,152	148	802	1,590	814	14,792	De 16,526	Ap 13,984	16,658	13,206	3,081	196	175	79,260,503
2	Automobile repairing.....	8	32	7				25	Au <sup>a</sup> 28	Fe <sup>a</sup> 20	23	23				26,756
3	Bread and other bakery products.....	21	144	20	5	8	8	103	Je 107	Ap 99	103	78	13	6	1	370,214
4	Confectionery and ice cream.....	11	104	11	7	5	5	139			181	64	113	1	3	441,725
5	Confectionery.....	8	131	10	2	2	3	114	De 150	Je <sup>a</sup> 50	150	44	112		3	283,440
6	Ice cream.....	3	33	1	5		2	25	Au <sup>a</sup> 39	Mh <sup>a</sup> 15	22	20		1		148,235
7	Copper, tin, and sheet-iron work.....	4	58	7	4	1	1	25	Se <sup>a</sup> 32	Mh <sup>a</sup> 18	23	23				55,694
8	Foundry and machine-shop products.....	11	349	4	22	8	11	304	Ja 328	Je 273	326	324	2			1,159,885
9	Furniture, wood, other than rattan and willow.....	3	190		12	28	8	143	Se 173	Fe 90	168	157	4	7		368,052
10	Lumber, planing-mill products, not including planing mills connected with sawmills.....	6	113	.....	14	7	8	84	Se 111	Ja 59	100	100	.....	.....	.....	514,104
11	Marble and stone work.....	3	23	1	4	2		16	No 22	Ja 9	21	21				110,678
12	Mineral and carbonated waters.....	4	16	3	2			11	Je 18	Mh <sup>1</sup> 5	13	12		1		48,850
13	Patent and proprietary medicines.....	9	62	7	7		2	36	De 38	Au 33	41	8	30	1	2	44,158
14	Printing and publishing, book and job.....	15	173	11	13	5	7	137	De 154	Ja 102	155	107	43	3	2	404,937
15	Printing and publishing, newspapers and periodicals.....	8	184	9	7	34	27	107	Mh 113	Au 102	71	62	7	2	.....	476,156
16	Tobacco, cigars.....	12	188	13	8	9	3	155	No 163	Ja 136	160	72	88			295,985
17	Tools, not elsewhere specified.....	4	73	6	1	2	2	62	Fe 68	Je 53	66	60		6		244,807
18	All other industries*.....	95	16,413	49	696	1,490	732	13,446	.....	.....	15,207	12,095	2,776	169	167	74,688,143

* All other industries embrace—		Brass, bronze, and copper products.....	4	Clothing, women's, wrappers and house dresses.....	2	Flour-mill and gristmill products.....	2
Agricultural implements.....	3	Brooms, from broom corn.....	1	Coffee, roasting and grinding.....	1	Fur goods.....	1
Artificial stone products.....	2	Butter.....	1	Druggists' preparations.....	2	Gas, illuminating and heating.....	1
Automobile bodies and parts.....	6	Carriages and wagons.....	1	Electrical machinery, apparatus, and supplies.....	1	Gloves and mittens, cloth, not including gloves made in textile mills.....	1
Awnings, tents, and sails.....	1	Cars and general shop construction and repairs by electric-railroad companies.....	1	Electroplating.....	2	Hand stamps.....	1
Bluing.....	2	Cars and general shop construction and repairs by steam-railroad companies.....	1	Engraving, steel and copper plate, including plate printing.....	1	Hardware, piano and organ.....	1
Bookbinding and blank-book making.....	1	Cleansing preparations.....	1	Engraving, wood.....	1	Ice, manufactured.....	1
Boxes, cigar.....	1	Clothing, men's.....	2			Iron and steel, welding.....	1
Boxes, paper and other, not elsewhere specified.....	2					Knit goods.....	2

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).

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



## 43

[illegible][illegible]

Iron and steel, forgings, not made in steel works or rolling mills.....	2	Motorcycles, bicycles, and parts.....	1	Pumps, steam.....	1	Steel barrels, drums, and tanks, portable.....	1
Jewelry.....	8	Mucilage, paste, and other adhesives, not elsewhere specified.....	2	Roofing materials.....	1	Stereotyping and electrotyping.....	2
Leather goods, not elsewhere specified.....	5	Musical instruments and materials, not specified.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	3	Stoves, gas and oil.....	1
Leather, tanned, curried, and finished.....	1	Oils, vegetable.....	1	Saddlery and harness.....	5	Surgical appliances.....	3
Liquors, malt.....	1	Paper and wood pulp.....	1	Saws.....	1	Tinware, not elsewhere specified.....	2
Lithographing.....	2	Perfumery and cosmetics.....	4	Screws, machine.....	2	Toys and games.....	2
Looking-glass and picture frames.....	3	Photographs and graphophones.....	1	Shirts.....	2	Typewriters and supplies.....	1
Machineline tools.....	2	Photographic materials.....	2	Signs and advertising novelties.....	3	Umbrellas and canes.....	1
Mattresses and spring beds, not elsewhere specified.....	2	Photo-engraving.....	3	Stamped ware, not elsewhere specified.....	1	Unpolishing materials, excelsior.....	4
Millinery and lace goods, not elsewhere specified.....	6	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	2	Stationery goods, not elsewhere specified.....	2	Wall plaster and composition flooring.....	6
Mirrors, framed and unframed, not elsewhere specified.....	3	Printing materials.....	1	Steam fittings and steam and hot-water heating apparatus.....	2	Wirework, woven-wire fencing.....	1
				Steam packing.....	2	Wood preserving.....	2
						Wood, turned and carved.....	2

[illegible]

Lamps.....	1	Mucilage and paste.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Tobacco, smoking and snuff.....	2
Liquors, malt.....	2	Musical instruments and materials, not specified.....	1	Saddlery and harness.....	1	Toys and games.....	1
Looking-glass and picture frames.....	1	Optical goods.....	2	Sewing-machine cases.....	1	Varnishes.....	1
Lumber and timber products.....	1	Paper and wood pulp.....	1	Shirts.....	2	Wall paper, not made in paper mills.....	1
Machine tools.....	1	Perfumery and cosmetics.....	2	Sporting and athletic goods.....	1	Watches.....	1
Mattresses and spring beds, not else- where specified.....	2	Photographs and graphophones.....	1	Stereotyping and electrotyping.....	1	Window and door screens.....	1
Models and patterns, not including pa- per patterns.....	2	Photo-engraving.....	1	Stoves and ranges.....	2	Wirework, not elsewhere specified.....	1
Motorcycles, bicycles, and parts.....	1	Pickles and sauces.....	1	Stoves, gas and oil.....	1	Wood, turned and carved.....	2
		Roofing materials.....	1	Structural ironwork, not made in steel works or rolling mills.....	1	Woolen goods.....	1

‡ Same number reported for one or more months



## MANUFACTURES—INDIANA.

TABLE 35.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

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

1	TERRE HAUTE—All industries.	257	7,631	200	328	391	254	6,458	Au	6,839	Ap	5,931	6,796	5,790	955	32	10	Dollars.
																		20,063,905
2	Artificial stone products.....	7	27	3	2	.....	4	18	Ap	21	Ja	11	18	18	.....	.....	.....	39,824
3	Automobile bodies and parts.....	6	34	8	.....	.....	.....	26	Fe	30	No	22	24	24	.....	.....	.....	49,162
4	Automobile repairing.....	39	176	40	12	4	10	110	Au	124	Fe	96	103	102	1	.....	.....	208,825
5	Bread and other bakery products.....	28	348	29	11	38	5	265	Se	276	Ja	243	274	178	94	1	1	785,483
6	Brooms, from broom corn.....	4	8	4	.....	1	.....	3	De	4	Ja	3	4	4	.....	.....	.....	15,520
7	Butter.....	3	95	.....	8	8	5	74	No	89	Jy	66	86	77	0	.....	.....	281,064
8	Clothing, men's and youths'.....	4	328	7	10	18	7	286	De	350	Ap	204	337	46	291	.....	.....	705,291
9	Confectionery and ice cream.....	8	230	9	12	9	18	182	No	255	My	101	229	86	124	3	16	359,634
10	Copper, tin, and sheet-iron work.....	19	91	17	14	1	6	53	Oc	63	Je	44	58	52	5	1	.....	196,934
11	Foundry and machine-shop products.....	18	547	12	29	16	9	481	.....	.....	.....	.....	494	483	10	1	.....	1,426,851
12	Boiler shops, foundries, and machine shop and foundry combined.	7	342	8	11	5	4	314	Au	343	Fe	286	315	307	8	.....	.....	807,579
13	Machine shops.....	11	205	4	18	11	5	167	Ja	210	Mh	138	179	176	2	1	.....	619,272
14	Lumber, planing-mill products, not including planing mills connected with sawmills.	4	31	2	6	.....	1	22	Je	25	De	19	19	19	.....	.....	.....	86,065
15	Mineral and carbonated waters.....	6	35	6	5	2	2	20	Jy	39	De	8	34	29	5	.....	.....	109,709
16	Printing, job and linotype work.....	11	135	10	17	14	11	83	De	88	Ja	77	88	60	20	8	.....	290,293
17	Printing and publishing, newspapers and periodicals.	7	224	.....	20	65	34	105	De	114	Fe	96	114	109	5	.....	.....	475,207
18	Tobacco, cigars.....	9	16	9	.....	.....	.....	7	De	12	Ap	5	3	1	2	.....	.....	20,759
19	All other industries*.....	84	5,306	44	182	215	142	4,723	.....	.....	.....	.....	4,911	4,502	389	18	2	15,632,394

\*All other industries embrace—  
 Airplanes, seaplanes, and airships, and parts..... 1  
 Artificial limbs..... 1  
 Awnings, tents, and sails..... 1  
 Boxes, wooden packing, except cigar boxes..... 1  
 Brass and bronze products..... 1  
 Brick, building..... 3

Brushes, toilet..... 1  
 Carpets, rag..... 1  
 Carriage and wagon materials..... 1  
 Carriages and sleds, children's..... 1  
 Carriages and wagons, including repairs..... 2  
 Cars and general shop construction and repairs by electric-railroad companies..... 1

Cars and general shop construction and repairs by steam-railroad companies..... 5  
 Cars, steam-railroad, not including operations of railroad companies..... 1  
 Clothing, women's..... 2  
 Coffee, roasting and grinding..... 3  
 Coffins, burial cases, and undertakers' goods..... 1  
 Cooperage, hogsheads and barrels..... 3

Electrical machinery, apparatus, and supplies..... 1  
 Flour-mill and gristmill products..... 4  
 Food preparations, not elsewhere specified..... 1  
 Furniture, wood, other than rattan and willow..... 2  
 Gas and electric fixtures..... 1  
 Gas, illuminating and heating..... 1

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

1	ANDERSON.....	99	9,021	59	234	457	343	7,928	Se	9,208	Mh	6,706	8,198	6,409	1,730	54	5	23,537,085
2	BLOOMINGTON.....	39	1,598	34	63	40	41	1,420	De	1,662	Ja	1,209	1,666	1,429	224	5	8	4,322,609
3	CLINTON.....	26	532	26	19	10	8	469	Au	503	Fe	419	471	296	175	.....	.....	826,425
4	CRAWFORDSVILLE.....	55	998	38	77	62	36	785	Se	942	Ap	696	966	817	142	5	2	2,292,338
5	EAST CHICAGO.....	61	10,752	29	399	1,035	332	8,957	Je	9,965	Fe	8,345	10,000	9,636	340	18	.....	106,254,672
6	ELKHART.....	120	6,624	91	240	327	238	5,728	De	5,868	No	5,657	5,889	5,168	685	20	18	13,786,735
7	ELWOOD.....	32	2,445	23	95	107	53	2,167	Au	2,575	My	1,780	2,381	1,780	535	10	.....	7,100,247
8	FRANKFORT.....	34	1,484	35	58	69	47	1,275	De	1,582	Ja	1,128	1,595	1,147	444	4	.....	3,885,774
9	HAMMOND.....	94	7,243	69	265	608	236	6,065	Ja	6,750	Au	4,479	6,482	5,602	730	56	74	38,369,497
10	HUNTINGTON.....	57	2,586	54	113	152	102	2,165	Ja	2,384	Je	1,888	2,454	1,926	289	220	19	6,185,726
11	JEFFERSONVILLE.....	29	1,213	21	75	59	41	1,017	Jy	1,480	Oc	597	693	681	12	.....	.....	4,566,803
12	KOKOMO.....	98	7,637	82	251	320	257	6,727	No	7,490	Ja	6,039	7,103	6,353	732	9	9	24,779,672
13	LA PORTE.....	52	4,182	32	163	325	130	3,502	De	3,682	Ja	3,250	3,687	3,198	447	17	5	21,007,394
14	LAFAYETTE.....	85	2,996	48	173	117	108	2,550	De	2,858	Mh	2,337	2,872	2,544	273	14	41	8,037,125
15	LOGANSPORT.....	67	2,776	64	87	199	88	2,393	De	2,933	Mh	1,957	2,951	2,608	306	10	27	2,894,509
16	MARION.....	101	5,694	69	224	540	215	4,646	No	5,154	Jy	4,109	5,053	3,902	986	80	85	14,672,144
17	MICHIGAN CITY.....	47	3,915	29	158	197	79	3,452	My	3,929	No	2,755	4,088	3,446	438	69	135	20,805,353
18	MISHAWAKA.....	32	5,815	24	211	215	297	5,068	De	5,382	Ja	4,865	6,388	4,272	1,070	20	26	25,817,033
19	MUNCIE.....	121	7,459	87	363	222	228	6,559	Se	7,169	De	6,574	6,957	6,113	773	40	26	22,116,186
20	NEW ALBANY.....	93	1,515	80	116	48	32	1,230	De	1,426	Ja	907	1,482	1,243	190	18	11	4,399,921
21	NEW CASTLE.....	33	4,413	21	83	163	105	4,041	No	4,712	Fe	3,076	4,596	4,065	490	28	4	8,406,266
22	PERU.....	40	1,070	44	64	49	47	1,466	Je	1,683	Fe	1,305	1,649	1,260	359	13	17	3,051,423
23	RICHMOND.....	144	5,767	109	223	278	219	4,938	De	5,318	Fe	4,523	5,321	4,817	898	65	41	14,214,713
24	VINCENNES.....	98	1,501	81	87	97	45	1,191	Oc	1,620	Mh	758	1,639	1,482	153	1	3	6,220,676

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## MANUFACTURES—INDIANA.

45

## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars. 1,170,314	Dollars. 709,856	Dollars. 7,389,936	Dollars. 35,017	Dollars. 121,111	Dollars. 1,479,074	Dollars. 26,102,674	Dollars. 806,200	Dollars. 41,967,818	Dollars. 15,064,938	19,064	13,337	1,770	145	.....	3,912	5,833	1
1,733	2,719	22,584	.....	574	535	41,445	1,789	80,484	43,253	16	.....	.....	.....	.....	16	.....	2
23,150	8,454	135,556	150	12,102	515	25,017	1,381	78,046	52,248	32	.....	.....	.....	.....	32	.....	3
33,588	47,751	249,279	.....	18,225	7,184	137,119	6,785	430,494	205,580	208	.....	.....	10	.....	198	.....	4
.....	1,200	4,380	.....	8,086	174,201	1,241,676	13,059	2,029,958	774,623	394	265	.....	.....	.....	129	221	5
11,623	15,157	94,962	.....	60	97	11,044	100	21,663	10,459	4	.....	.....	2	.....	2	.....	6
33,664	36,241	132,920	2,205	25,906	8,241	1,013,077	9,196	1,371,573	349,300	130	40	.....	.....	.....	90	.....	7
36,673	45,326	95,974	.....	923,895	23,421	923,895	5,274	1,351,970	422,810	161	.....	.....	.....	.....	161	.....	8
24,058	4,708	59,685	.....	16,154	23,421	482,010	14,193	748,056	251,853	203	185	.....	.....	.....	78	104	9
157,808	28,387	539,116	325	3,308	3,070	543,175	2,593	748,745	202,977	20	.....	.....	.....	.....	20	.....	10
60,280	10,209	356,552	.....	1,428	45,746	747,592	50,781	1,862,513	1,064,140	1,274	228	.....	10	.....	1,036	40	11
.....	.....	.....	.....	.....	34,043	485,618	38,617	1,223,701	690,466	740	165	.....	.....	.....	575	40	12
91,522	18,178	182,504	325	1,428	10,803	201,974	12,164	638,812	304,674	534	63	.....	10	.....	461	.....	13
4,540	684	25,985	700	300	1,042	20,700	4,340	81,890	47,850	225	75	.....	20	.....	130	.....	14
7,820	3,560	17,913	.....	620	13,886	132,420	2,030	218,793	84,328	58	15	.....	.....	.....	43	.....	15
30,976	23,223	84,615	164	7,616	6,664	156,387	2,937	393,222	233,808	75	.....	.....	.....	.....	75	.....	16
48,925	80,593	165,203	18,272	11,120	30,912	220,154	7,142	850,533	620,237	162	.....	.....	.....	.....	162	.....	17
749,760	462,853	5,430	.....	454	5,768	10,853	293	31,783	20,637	5	.....	.....	.....	.....	5	.....	18
.....	.....	5,726,659	12,619	28,343	1,125,877	20,387,005	677,646	31,646,477	10,581,736	10,637	13,029	1,770	103	.....	1,735	5,468	19

Hand stamps.....	1	Mattresses and spring beds, not elsewhere specified.....	1	Photo-engraving.....	1	Slaughtering and meat packing.....	3
Ice, manufactured.....	2	Models and patterns, not including paper patterns.....	1	Pickles, preserves, and sauces.....	2	Stereotyping and electrotyping.....	1
Iron and steel, steel works and rolling mills.....	2	Optical goods.....	2	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	2	Tobacco, smoking.....	1
Iron and steel, welding.....	1	Paints.....	1	Pulp goods.....	1	Varnishes.....	1
Lamps.....	1	Paper and wood pulp.....	1	Saddlery and harness.....	4	Wirework, woven-wire fencing.....	1
Liquors, malt.....	2	Patent medicines and compounds.....	2	Scales and balances.....	1	Wood, turned and carved.....	1
Lumber and timber products.....	1	Perfumery and cosmetics.....	2	Signs and advertising novelties.....	2		
Marble and stone work.....	3						

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

\$12,435	968,740	8,454,529	159,231	18,336	1,320,000	21,216,600	873,603	38,930,509	16,840,340	20,002	11,352	930	313	.....	7,407	1,848	1
194,016	72,050	1,122,889	5,305	3,690	223,628	4,153,038	97,061	6,816,002	2,565,903	3,708	2,220	.....	33	.....	1,455	1,138	2
66,337	32,474	415,094	.....	4,200	27,751	961,190	52,202	1,750,794	737,342	1,178	707	.....	2	.....	469	355	3
125,767	122,374	741,517	22,823	8,600	134,924	2,731,932	138,364	4,837,222	1,966,926	2,181	1,155	.....	5	.....	1,021	8	4
1,918,582	2,115,909	15,258,456	1,863	11,018	1,625,040	56,910,025	6,415,052	89,568,753	26,234,676	84,669	19,344	45,785	216	.....	19,224	37,329	5
802,419	672,315	6,058,630	5,352	49,680	440,463	12,807,201	554,635	24,421,494	11,059,658	9,491	3,070	1,520	53	272	4,576	2,814	6
126,162	222,880	2,620,406	6,750	4,684	333,135	10,115,473	402,741	15,044,537	5,126,323	7,110	6,191	.....	4	.....	915	2,273	7
285,650	126,559	1,282,322	6,977	11,021	126,160	4,143,222	108,996	6,401,263	2,149,045	2,360	250	.....	.....	.....	2,110	73	8
1,191,320	1,245,066	8,838,820	.....	53,910	1,734,944	39,099,695	942,044	59,276,319	19,324,580	16,018	4,411	3,700	14	5	7,888	8,406	9
431,018	348,478	2,782,405	2,981	14,558	273,609	4,319,177	178,782	9,977,014	5,479,055	3,130	848	.....	25	.....	2,266	40	10
183,151	100,960	1,331,862	4,372	3,184	343,371	4,174,092	218,204	6,732,599	2,340,213	3,304	1,143	.....	74	.....	2,147	8	11
889,904	608,215	8,249,355	23,169	20,530	1,420,777	19,932,965	1,650,743	38,709,105	17,116,457	33,470	10,725	9,582	6,049	.....	7,114	13,392	12
591,278	300,582	2,878,654	54,034	27,297	481,328	6,569,302	300,482	12,616,169	5,737,385	6,153	2,490	.....	133	.....	3,530	422	13
659,327	986,102	4,061,102	27,678	22,718	828,860	10,276,001	254,142	20,589,800	10,050,147	5,741	3,600	25	.....	.....	2,116	3,512	14
201,568	378,812	3,044,102	8,793	19,697	45,462	3,685,820	238,604	7,746,446	3,821,932	5,554	1,455	.....	2	.....	4,097	663	15
676,255	663,005	4,330,922	8,283	20,339	1,050,020	14,020,822	788,090	24,325,085	9,506,204	8,941	3,332	1,186	62	.....	4,361	2,449	16
498,244	275,002	4,609,449	51,102	23,465	2,258,282	26,585,764	538,853	37,300,551	10,235,934	0,393	3,240	2,400	.....	.....	753	5,545	17
630,423	453,254	5,687,566	2,109	12,640	1,196,202	13,662,226	365,511	27,765,010	13,737,273	11,261	4,405	2,125	222	1,050	2,559	1,877	18
237,457	579,682	7,141,668	4,116	30,425	972,835	17,704,544	1,105,711	33,175,525	14,365,274	15,542	2,240	45	159	.....	13,098	483	19
284,437	81,656	1,110,080	1,088	17,536	141,758	3,992,591	184,989	6,766,373	2,638,813	3,341	2,183	.....	14	150	994	345	20
251,613	264,937	4,170,462	1,475	4,045	174,320	7,948,357	550,200	14,583,738	6,085,172	5,821	1,920	2,850	3	.....	1,048	3,600	21
178,089	127,587	1,189,740	110	17,600	107,243	2,361,007	84,009	4,704,560	2,259,484	1,941	715	10	.....	.....	1,216	.....	22
879,283	562,113	4,858,737	173,458	50,970	457,074	12,462,895	258,803	22,893,643	10,181,945	6,711	3,471	.....	35	.....	3,205	3,356	23
210,584	151,630	1,088,505	900	24,002	185,827	4,233,434	352,333	7,582,072	2,996,305	4,090	2,605	.....	316	.....	1,169	440	24

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> Excludes Whiting, to avoid disclosure of individual operations.



DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES  
MANUFACTURES: 1919

I O W A

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

CONTENTS

EXPLANATION OF TERMS.....	Page		Page
GENERAL STATISTICS		Character of ownership, for selected industries and for cities.....	15
General character of the state.....	3	Manufactures, by population groups, in cities of 10,000 inhabitants or more.....	16
Comparative summary.....	4	Principal industries in cities having 50,000 inhabitants or more, with per cent of total for state.....	17
Statistics for the state, by counties.....	5	Number and horsepower of types of prime movers.....	17
Principal industries, ranked by value of products.....	6	Fuel consumed.....	18
Persons engaged in manufacturing industries.....	7	SPECIAL STATISTICS	
Average number of wage earners for selected industries, with per cent, by sex and age.....	7	Slaughtering and meat packing.....	19
Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more.....	8	Butter, cheese, and condensed milk.....	19
Wage earners, by months.....	8	Flour-mill and gristmill products.....	19
Wage earners, by months, for selected industries and for cities.....	8	Printing and publishing.....	20
Average number of wage earners, by prevailing hours of labor per week, for selected industries and for cities.....	10	Agricultural implements.....	20
Size of establishments, by average number of wage earners, for selected industries and for cities.....	11	Laundries.....	20
Size of establishments, by value of products.....	12	Dyeing and cleaning.....	20
Size of establishments, by value of products, for selected industries.....	13	Custom sawmills and custom gristmills.....	21
Size of establishments, by value of products, for cities of 10,000 inhabitants or more.....	14	GENERAL TABLES	
		Table 28.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909.....	21
		Table 29.—Detailed statement of all industries combined and specified industries: 1919.....	24





## 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 1900 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 18 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 18 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.



# IOWA.

## GENERAL STATISTICS.

**General character of the state.**—Iowa has a gross area of 56,147 square miles, of which 55,586 represent land surface. The inhabitants of the state in 1900 numbered 2,231,853; in 1910, 2,224,771; and in 1920, 2,404,021. In total population Iowa ranked sixteenth among the states in 1920. The number of inhabitants per square mile in 1910 was 40, the corresponding figures for 1920 being 43.2.

In 1920 there were 18 cities in the state having more than 10,000 inhabitants. The combined population of these cities in that year was 604,150, which formed 25.1 per cent of the total for Iowa. Of the total value of the state's manufactured products, 78.4 per cent was reported from these 18 cities.

**Importance and growth of manufactures** (Table 1).—The large increases in salaries and wages, cost of materials, and the value of products, as presented in Table 1, are largely 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 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 exceptional increase in "Rent and taxes."

**Statistics for the state, by counties** (Table 2).—Figures are not available for comparison of the totals for the 99 counties in 1919 with those for prior censuses.

**Principal industries, ranked by value of products** (Table 3).—The ranking of industries by value of products is not always satisfactory as indicating their importance from a manufacturing standpoint. Their ranking in many instances 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 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).—General increases from 1914 to 1919 are shown in most of the details for the 18 cities included in this table. During this period there was an increase of \$348,885,479, or 148.2 per cent, in the total value of products for these cities and 12,007, or 27.2 per cent, in average number of wage earners.

**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, and also for each of the 18 cities. The table also shows a number of industries in the state in 1919 which employed a large number of female wage earners. Of the total number of female wage earners in the state, 80.9 per cent were in the 18 cities, while of the male wage earners, only 67.7 per cent were reported by the cities.

**Prevailing hours of labor** (Table 9).—Since 1914 there has been a marked shortening of the working-day in Iowa. In that year 17.4 per cent of the wage earners were included in the group "48 and under," as against 38 per cent in 1919. In 1914 the "60" and "over 60" groups constituted 44 per cent of the total wage earners, as compared with 19.5 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 number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 97.5 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 44.6 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 2.5 per cent of the total number of manufacturing establishments in the state, but reported 55.4 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 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 manufacturing activities.

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 27.1 per cent of the number of establishments in the state in 1919, they reported 84.5 per cent of the average number of wage earners and 86.5 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 19,704, or 40.7 per cent, and the value of products, \$408,837,357, or 173.3 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 18 cities in 1919 represented 40.6 per cent of the total in the state. They reported in that year 69.7

per cent of the average number of wage earners and 78.4 per cent of the value of products. These proportions do not differ materially from those of 1914.

Principal industries in Davenport, Des Moines, and Sioux City, with per cent of total for the state (Table 16).—This table includes all industries, in each of the three cities in the state having 50,000 inhabitants or more in 1920, which reported products of \$600,000 and over and for which figures can be shown without disclosing the operations of individual establishments. The names of a number of important industries are also given for which figures can not be shown without the possibility of 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 52,897 horsepower, or 27.8 per cent. This increase, however, is due to the gain of 62,309 horsepower, or 123.9 per cent, in rented power, since owned power decreased 9,412 horsepower, or 6.7 per cent, during the five-year period. Of the total horsepower in 1914, 73.5 per cent were owned power and 26.5 per cent rented. The corresponding proportions for 1919 were 53.6 per cent and 46.4 per cent, respectively.

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. In 1919, five industries combined, brick and tile, terra-cotta, and fire-clay products, steam railroad-repair shops, cement, glucose and starch, and slaughtering and meat packing consumed 67.4 per cent of the bituminous coal; while 22.1 per cent of the anthracite coal, 60.2 per cent of the coke, and 69.4 per cent of the fuel oils were used in the manufacture of gas.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	5,683	5,614	5,528	4,785	4,828	1.2	1.6	15.5	-0.9
Persons engaged.....	105,439	82,631	78,360	61,361	( <sup>2</sup> )	27.6	5.5	27.7	.....
Proprietors and firm members.....	6,393	5,421	5,323	4,758	( <sup>2</sup> )	-0.5	1.8	11.9	.....
Salaried employees.....	19,495	14,097	11,402	7,122	5,159	38.3	23.6	60.1	38.0
Wage earners (average number).....	80,551	63,113	61,635	49,481	44,420	27.6	2.4	24.6	11.4
Primary horsepower.....	242,946	190,049	155,384	118,065	106,664	27.8	22.3	31.6	10.7
Capital.....	\$403,205,513	\$233,128,542	\$171,218,604	\$111,427,429	\$85,687,334	73.0	36.2	53.7	30.1
Salaries and wages.....	124,161,129	56,170,325	43,513,581	28,945,430	22,253,197	121.0	29.1	50.3	30.1
Salaries.....	34,043,960	16,310,815	10,971,650	5,948,377	4,232,544	108.7	48.7	84.4	40.5
Wages.....	90,117,169	39,859,510	32,541,931	22,997,053	18,020,653	126.1	22.5	41.5	27.6
Paid for contract work.....	1,470,139	993,326	968,827	961,910	( <sup>2</sup> )	48.0	2.5	0.7	.....
Rent and taxes.....	15,100,221	3,556,794	2,382,967	1,061,399	( <sup>2</sup> )	324.7	49.2	.....	18.9
Cost of materials.....	520,240,807	205,451,339	170,707,048	102,843,892	85,778,867	153.2	20.4	66.0	20.8
Value of products.....	745,472,697	310,749,974	259,237,637	160,572,313	132,870,865	139.9	19.9	61.4	22.6
Value added by manufacture.....	225,231,890	105,298,635	88,530,589	57,728,421	47,091,993	113.9	18.9	53.4	.....

<sup>1</sup> A minus sign (—) denotes decrease.

<sup>2</sup> Figures not available.

<sup>3</sup> Exclusive of internal revenue.

<sup>4</sup> Value of products less cost of materials.



## MANUFACTURES—IOWA.

5

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 horse-power.
		Average number.	Wages.					
The state.....	5,083	80,551	\$90,117,160	\$15,100,221	\$520,240,807	\$745,472,697	\$225,231,890	242,946
Adair.....	14	23	23,062	1,046	156,673	210,653	53,980	121
Adams.....	9	9	7,334	974	50,236	81,028	30,702	70
Allamakee.....	53	173	196,795	5,768	1,361,145	1,838,443	477,298	875
Appanoose.....	51	219	217,191	22,509	788,082	1,211,212	423,130	906
Audubon.....	26	50	40,672	5,898	414,362	526,156	111,794	341
Benton.....	63	597	685,749	33,219	959,403	2,095,928	1,136,525	2,308
Black Hawk.....	240	5,023	6,227,128	399,599	26,121,845	39,450,011	13,328,166	12,129
Boone.....	57	1,013	1,349,223	81,226	1,183,389	3,201,718	2,018,329	2,243
Bremer.....	88	261	235,398	52,557	3,150,710	3,937,810	787,100	1,252
Buchanan.....	50	193	157,513	11,609	1,083,272	1,501,324	421,052	1,233
Buena Vista.....	58	146	153,701	43,740	575,881	901,680	415,799	642
Butler.....	39	103	75,381	9,122	981,113	1,182,221	201,108	491
Calhoun.....	37	80	81,576	21,848	378,357	722,011	343,654	253
Carroll.....	46	193	248,234	14,703	985,322	1,505,651	530,329	645
Cass.....	38	171	180,001	14,688	1,321,446	1,808,462	547,016	747
Cedar.....	33	51	47,732	13,312	783,496	953,402	169,904	486
Cerro Gordo.....	88	2,523	3,028,719	457,041	21,098,554	32,115,943	7,417,389	21,018
Cherokee.....	30	74	75,808	8,031	172,400	375,165	202,705	233
Chickasaw.....	33	76	70,814	10,494	1,255,718	1,524,333	268,615	638
Clarke.....	7	20	14,639	2,415	10,507	55,153	38,046	35
Clay.....	34	146	130,926	12,518	361,836	679,178	317,342	508
Clayton.....	92	433	474,462	14,895	2,567,133	3,357,171	790,038	1,032
Clinton.....	162	3,532	4,164,837	1,533,200	10,768,164	30,924,597	11,156,403	10,375
Crawford.....	24	98	137,575	13,475	589,497	897,988	287,491	400
Dallas.....	55	557	640,117	32,990	1,250,819	2,071,580	1,420,707	2,648
Davis.....	8	20	13,204	5,007	20,758	60,295	30,537	37
Decatur.....	10	64	54,891	4,315	405,738	516,493	110,755	134
Delaware.....	34	84	83,841	10,492	1,359,390	1,621,903	262,507	252
Des Moines.....	101	3,463	3,633,948	717,074	8,315,223	15,230,767	6,924,544	7,590
Dickinson.....	22	36	38,280	3,310	352,976	460,807	107,831	252
Dubuque.....	157	6,258	6,113,060	1,193,826	21,013,435	35,537,535	14,524,100	11,321
Emmet.....	24	283	407,910	18,150	514,701	1,085,709	571,008	510
Fayette.....	60	1,354	1,765,728	26,227	2,467,982	4,734,079	2,206,097	2,315
Floyd.....	32	906	1,224,878	35,225	3,427,920	7,055,448	4,227,528	3,651
Franklin.....	24	188	190,757	27,591	972,126	1,583,215	611,089	960
Fremont.....	24	56	57,583	3,973	135,010	256,801	121,791	439
Greene.....	23	69	71,783	10,977	225,296	491,150	265,854	323
Grundy.....	24	34	37,800	4,036	263,435	348,736	85,301	813
Guthrie.....	38	52	44,520	8,093	250,538	373,564	117,026	448
Hamilton.....	36	310	315,782	40,122	891,260	1,611,276	720,016	924
Hancock.....	27	36	44,495	5,887	635,532	750,207	114,675	353
Hardin.....	43	215	212,323	17,028	2,096,761	2,680,675	583,014	1,018
Harrison.....	20	525	601,358	9,356	680,366	1,453,271	772,905	487
Henry.....	32	99	92,525	9,753	417,773	661,719	243,940	684
Howard.....	34	108	83,943	7,041	1,236,191	1,434,323	198,132	347
Humboldt.....	21	60	60,282	4,607	401,744	570,616	168,872	505
Ia.....	20	34	34,336	6,169	135,381	252,143	110,762	213
Iowa.....	20	94	51,941	6,893	598,856	783,388	181,532	986
Jackson.....	39	119	115,336	8,780	912,665	1,209,843	297,178	469
Jasper.....	50	838	1,010,222	135,428	3,393,180	6,721,268	3,328,082	3,297
Jefferson.....	44	690	591,190	114,137	1,996,825	4,658,416	2,661,501	1,075
Johnson.....	59	337	284,044	30,878	947,205	1,820,687	882,482	962
Jones.....	41	201	201,307	22,574	1,517,452	2,043,094	525,642	1,255
Keokuk.....	37	155	145,347	5,610	311,146	706,964	395,818	715
Kossuth.....	52	156	171,693	14,313	1,160,112	1,545,632	385,520	596
Lee.....	129	3,812	4,157,598	772,170	17,226,309	27,551,394	10,325,085	14,195
Linn.....	251	6,370	6,666,970	2,412,565	72,802,657	93,109,278	20,306,621	20,204
Louis.....	22	85	93,734	4,348	242,885	387,089	144,204	251
Lucas.....	26	99	88,324	8,133	420,728	662,106	241,378	377
Lyon.....	32	59	69,158	7,089	484,270	755,030	270,760	191
Madison.....	18	48	41,655	5,201	117,839	281,920	164,081	345
Mahaska.....	05	466	401,175	98,775	1,158,271	2,059,298	901,027	1,268
Marion.....	46	201	200,235	35,343	865,239	1,922,398	1,057,169	1,077
Marshall.....	75	1,370	1,647,110	156,031	5,289,850	9,070,827	3,783,977	2,839
Mills.....	35	68	70,248	11,071	279,296	457,419	178,123	479
Mitchell.....	37	67	60,056	7,487	1,034,578	1,251,597	217,019	369
Monona.....	19	29	27,221	2,313	212,593	311,477	98,884	209
Monroe.....	23	102	99,527	10,511	618,090	847,568	229,472	197
Montgomery.....	70	348	343,930	30,070	1,503,205	3,019,672	1,516,467	1,083
Muscataine.....	174	2,581	2,199,418	188,024	5,944,545	11,163,705	5,219,160	4,409
O'Brien.....	38	152	185,598	20,766	1,387,606	1,854,316	466,710	839
Osceola.....	18	30	35,693	4,629	204,086	113,847	113,847	142
Paga.....	58	276	291,065	90,095	1,720,070	2,824,478	1,104,408	2,014
Palo Alto.....	29	72	63,140	8,673	504,759	823,275	228,516	332
Plymouth.....	50	170	196,624	30,487	1,018,793	2,120,395	510,602	947
Pocahontas.....	29	98	143,634	10,611	518,229	835,970	317,741	1,740
Polk.....	397	8,232	8,446,957	1,728,071	34,273,693	61,989,559	27,715,863	18,541
Pottawattamie.....	140	1,940	2,634,188	229,821	5,922,613	11,147,966	5,225,353	4,393
Poweshiek.....	36	405	329,938	29,033	1,320,546	2,519,596	1,190,050	1,032
Ringgold.....	12	15	8,123	1,241	32,491	64,644	32,153	17
Sac.....	37	134	149,785	11,317	387,101	817,799	430,698	863
Scott.....	243	5,748	6,969,277	1,083,318	33,132,669	50,069,081	16,933,412	22,027
Shelby.....	22	61	56,582	8,408	216,607	361,382	144,775	221
Sioux.....	61	176	217,343	9,184	1,134,947	1,595,114	460,167	500
Story.....	66	274	840,962	31,813	1,446,473	2,103,995	657,522	1,213



## MANUFACTURES—IOWA.

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
Tama.....	45	212	\$224,630	\$38,686	\$1,414,668	\$2,003,311	\$588,642	1,630
Taylor.....	19	45	35,415	11,118	132,770	231,970	99,200	67
Union.....	35	561	730,955	26,441	1,812,610	2,809,600	996,990	1,012
Van Buren.....	17	28	14,330	1,644	157,727	204,425	46,698	88
Wapello.....	110	2,810	3,185,903	1,025,270	36,687,053	45,575,291	8,888,238	5,893
Warren.....	16	48	47,252	2,261	118,490	214,712	96,222	339
Washington.....	52	244	216,031	17,137	619,587	1,307,006	687,419	732
Wayne.....	28	55	55,699	3,978	764,723	899,288	134,565	269
Webster.....	106	2,546	2,716,031	227,104	8,401,690	14,126,316	5,724,556	8,278
Winnebago.....	25	87	93,624	9,441	1,003,272	1,251,030	247,758	496
Winneshek.....	45	223	223,470	15,726	2,086,040	2,682,628	596,588	1,064
Woodbury.....	282	6,784	8,997,538	1,343,985	125,432,151	146,686,197	21,254,046	14,940
Worth.....	18	254	415,145	3,570	863,377	1,363,734	500,357	457
Wright.....	37	240	317,255	8,318	633,130	1,108,880	475,750	488

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries.....	5,683	80,551	100.0	\$745,473	100.0	\$225,232	100.0	Tobacco, cigars.....	211	1,305	1.6	\$3,977	0.5	\$2,155	1.0
Slaughtering and meat packing.....	21	7,134	8.9	226,362	30.4	21,041	9.7	Clothing, men's.....	18	705	0.9	3,717	0.5	1,166	0.5
Butter.....	411	1,595	2.0	56,422	7.6	6,983	3.1	Furniture.....	36	894	1.1	3,457	0.5	1,818	0.8
Food preparations, not elsewhere specified.....	30	2,441	3.0	54,994	7.4	9,732	4.3	Dairymen's, poultrymen's, and apirarists' supplies.....	12	434	0.5	3,177	0.4	1,308	0.6
Cars and general shop construction and repairs by steam-railroad companies.....	51	13,536	16.8	33,099	4.4	20,880	9.3	Stoves and hot-air furnaces.....	10	412	0.5	3,096	0.4	2,106	0.9
Glucose and starch.....	4	1,007	1.3	24,689	3.3	7,047	3.1	Druggists' preparations.....	15	234	0.3	3,070	0.4	1,059	0.5
Flour-mill and gristmill products.....	180	500	0.6	21,325	2.9	2,712	1.2	Boots and shoes.....	6	653	0.8	3,047	0.4	777	0.3
Printing and publishing, newspapers and periodicals.....	774	3,352	4.2	20,431	2.7	14,955	6.6	Artificial stone products.....	255	672	0.8	2,962	0.4	1,074	0.7
Bread and other bakery products.....	538	2,583	3.2	20,244	2.7	7,733	3.4	Wall plaster and composition flooring	7	884	1.1	2,626	0.4	1,786	0.8
Foundry and machine-shop products	198	3,529	4.4	18,545	2.5	10,475	4.7	Signs and advertising novelties.....	17	350	0.4	2,367	0.3	1,728	0.8
Engines, steam, gas, and water.....	17	2,739	3.4	17,611	2.4	8,716	3.9	Hardware.....	10	578	0.7	2,258	0.3	1,339	0.6
Lumber, planing-mill products, not including planing mills connected with sawmills.....	97	3,211	4.0	16,388	2.2	7,602	3.4	Pickles, preserves, and sauces.....	14	311	0.4	2,208	0.3	740	0.3
Confectionery and ice cream.....	182	1,739	2.2	11,535	1.5	4,664	2.1	Marble and stone work.....	58	244	0.3	2,160	0.3	1,138	0.5
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	47	689	0.9	11,450	1.5	1,684	0.7	Clothing, women's.....	10	503	0.6	2,069	0.3	924	0.4
Washing machines and clothes wringers.....	14	1,063	1.3	8,815	1.2	4,186	1.9	Mattresses and spring beds, not elsewhere specified.....	15	239	0.3	1,992	0.3	869	0.4
Brick and tile, terra-cotta, and fire-clay products.....	113	2,452	3.0	8,127	1.1	5,488	2.4	Fur goods.....	20	268	0.3	1,846	0.2	1,041	0.5
Cement.....	4	1,017	1.3	8,121	1.1	2,041	1.3	Ice, manufactured.....	46	504	0.6	1,841	0.2	1,309	0.6
Canning and preserving, fruits and vegetables.....	62	1,271	1.6	8,015	1.1	2,748	1.2	Automobile bodies and parts.....	37	460	0.6	1,713	0.2	897	0.4
Patent medicines and compounds.....	90	393	0.5	6,349	0.9	4,395	2.0	Structural ironwork, not made in steel works or rolling mills.....	17	224	0.3	1,699	0.2	690	0.3
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	9	839	1.0	6,333	0.8	2,614	1.2	Coffins, burial cases, and undertakers' goods.....	8	318	0.4	1,649	0.2	777	0.3
Agricultural implements.....	26	906	1.1	5,959	0.8	3,137	1.4	Mineral and soda waters.....	108	207	0.3	1,633	0.2	807	0.4
Automobile repairing.....	579	1,355	1.7	5,807	0.8	3,475	1.5	Automobiles.....	6	104	0.1	1,584	0.2	431	0.2
Gas, illuminating and heating.....	68	727	0.9	5,738	0.8	3,095	1.4	Carriages and wagons, including repairs.....	60	399	0.5	1,544	0.2	903	0.4
Buttons.....	77	2,091	2.6	5,615	0.8	3,139	1.4	Gloves and mittens, leather.....	6	290	0.4	1,520	0.2	767	0.3
Printing and publishing, book and job	207	1,244	1.5	5,210	0.7	3,305	1.5	Tools, not elsewhere specified.....	17	343	0.4	1,468	0.2	820	0.4
Coffee, roasting and grinding.....	16	173	0.2	5,129	0.7	773	0.3	Boxes, paper and other, not elsewhere specified.....	10	238	0.3	1,438	0.2	459	0.2
Copper, tin, and sheet-iron work.....	120	803	1.0	5,062	0.7	2,428	1.1	Soap.....	7	82	0.1	1,427	0.2	434	0.2
Saddlery and harness.....	110	395	0.5	4,168	0.6	1,578	0.7	Pumps, steam and other power.....	4	323	0.4	1,379	0.2	733	0.3
								Perfumery and cosmetics.....	9	119	0.1	1,240	0.2	549	0.2
								Steam fittings and steam and hot-water heating apparatus.....	5	167	0.2	1,190	0.2	798	0.4
								Condensed milk.....	3	51	0.1	1,094	0.1	301	0.1
								Brooms, from broom corn.....	44	198	0.2	1,052	0.1	507	0.2
								All other industries <sup>1</sup> .....	528	9,045	11.2	56,421	7.6	23,984	10.6

<sup>1</sup> 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: "Cars, steam-railroad not including operations of railroad companies"; "oil, vegetable and composite"; and "phonographs and graphophones."



# MANUFACTURES—IOWA.

7

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

CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.						Male.	Fe- male.
All classes.....	1919	105,439	87,984	17,455	83.4	16.6	Clerks and other subordinate salaried employees.	1919	13,023	9,312	4,611	66.9	33.1
	1914	82,631	70,211	12,420	85.0	15.0		1914	10,328	7,890	2,738	74.2	25.8
	1909	78,360	66,202	12,158	84.5	15.5		1909	7,911	5,854	2,057	74.0	26.0
Proprietors and officials.....	1919	10,905	10,592	373	96.6	3.4	Wage earners (average number).....	1919	80,551	68,090	12,471	84.5	15.5
	1914	8,800	8,685	205	97.7	2.3		1914	63,113	53,636	9,477	85.0	15.0
	1909	8,814	8,578	236	97.3	2.7		1909	61,635	51,770	9,865	84.0	16.0
Proprietors and firm members....	1919	5,303	5,209	184	96.6	3.4	16 years of age and over.....	1919	79,820	67,041	12,779	84.7	15.3
	1914	5,421	5,263	158	97.1	2.9		1914	62,509	53,224	9,285	85.1	14.9
	1909	5,323	5,137	186	96.5	3.5		1909	60,588	51,123	9,465	84.4	15.6
Salaried officers of corporations...	1919	1,883	1,819	64	96.6	3.4	Under 16 years of age.....	1919	731	439	292	60.1	39.9
	1914	1,283	1,247	36	97.2	2.8		1914	604	412	192	68.2	31.8
	1909	1,424	1,399	25	98.2	1.8		1909	1,047	642	405	61.3	38.7
Superintendents and managers...	1919	3,689	3,564	125	96.6	3.4							
	1914	2,180	2,175	5	99.5	0.5							
	1909	2,067	2,042	25	98.8	1.2							

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

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				16 years of age and over.		Un- der 16 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries .....	1919	80,551	84.0	15.1	0.9	Food preparations, not elsewhere specified ..	1919	2,441	77.4	22.5	0.1
	1914	63,113	84.3	14.7	1.0		1914	1,371	72.9	23.6	3.4
	1909	61,635	83.0	15.3	1.7	Foundry and machine-shop products <sup>2</sup> .....	1919	3,548	97.7	2.0	0.3
Agricultural implements .....	1919	906	96.7	2.3	1.0		1914	3,065	98.5	1.3	0.2
	1914	1,164	99.7	0.1	0.2	Furniture .....	1919	894	91.2	8.3	0.6
Artificial stone products .....	1919	672	99.4	0.3	0.3		1914	1,100	98.7	1.1	0.2
	1914	800	99.6	0.2	0.1	Gas, illuminating and heating .....	1919	727	99.6	0.4	.....
Automobile repairing .....	1919	1,355	98.8	1.1	0.1		1914	768	100.0	.....	.....
	1914	200	100.0	.....	.....	Glucose and starch <sup>2</sup> .....	1919	1,007	95.7	4.3	.....
Boots and shoes .....	1919	653	40.3	48.5	2.1	Hardware .....	1919	578	86.0	13.8	0.2
	1914	380	54.0	41.0	4.4		1914	543	88.8	10.5	0.7
Bread and other bakery products .....	1919	2,583	63.0	33.7	3.3	Ice, manufactured .....	1919	504	98.8	1.2	.....
	1914	2,182	73.2	25.6	1.2		1914	192	99.5	0.5	.....
Brick and tile, terra-cotta, and fire-clay products.	1919	2,452	99.6	0.1	0.3	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919	3,211	95.3	4.0	0.7
	1914	3,163	99.6	(1)	0.4		1914	2,070	99.4	0.1	0.4
Butter .....	1919	1,595	86.5	13.0	0.5	Poultry, killing and dressing, not done in slaughtering and meat-packing establish- ments.	1919	689	79.0	20.3	0.7
	1914	1,274	87.8	12.0	0.2		1914	481	86.9	11.6	1.5
Buttons .....	1919	2,091	62.5	34.0	3.0	Printing and publishing, book and job .....	1919	1,244	65.0	32.1	2.9
	1914	2,406	70.0	28.7	0.7		1914	1,303	70.0	27.8	2.2
Canning and preserving, fruits and vegetables	1919	1,271	61.4	38.2	0.5	Printing and publishing, newspapers and periodicals.	1919	3,352	71.9	25.1	3.0
	1914	904	55.5	42.3	2.2		1914	3,397	73.7	23.8	2.5
Cars and general shop construction and re- pairs by steam-railroad companies.	1919	13,536	99.4	0.6	.....	Rubber tires, tubes, and rubber goods, not elsewhere specified. <sup>2</sup>	1919	839	92.8	7.2	.....
	1914	8,024	100.0	(1)	(1)						
Cement <sup>2</sup> .....	1919	1,017	98.6	1.4	.....	Slaughtering and meat packing .....	1919	7,134	89.7	10.1	0.2
	1914	705	7.4	91.8	0.9		1914	4,413	92.3	6.5	1.1
Clothing, men's .....	1919	705	6.0	92.0	1.4	Tobacco, cigars .....	1919	1,305	41.9	56.2	1.9
	1914	880	.....	.....	.....		1914	1,662	54.2	42.4	3.5
Clothing, women's .....	1919	503	25.4	74.0	.....	Wall plaster and composition flooring .....	1919	884	99.8	.....	0.2
	1914	503	22.7	76.9	0.4		1914	599	100.0	.....	.....
Confectionery and ice cream .....	1919	1,730	43.1	54.5	2.4	Washing machines and clothes wringers .....	1919	1,063	98.6	1.1	0.3
	1914	1,519	42.4	55.4	2.2		1914	375	97.0	1.9	0.5
Copper, tin, and sheet-iron work .....	1919	803	97.5	1.7	0.7	All other industries .....	1919	16,002	76.2	22.3	1.5
	1914	558	90.2	3.8	.....		1914	14,846	82.2	16.7	1.1
Engines, steam, gas, and water .....	1919	2,730	98.8	1.1	0.1						
	1914	1,197	100.0	.....	.....						
Flour-mill and gristmill products .....	1919	500	98.8	0.8	0.4						
	1914	790	90.3	9.7	.....						

<sup>1</sup> Less than one-tenth of 1 per cent.

<sup>2</sup> Not shown separately in 1914.

<sup>3</sup> Includes "iron and steel, tempering, welding, etc."



## MANUFACTURES—IOWA.

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
Boone.....	369	256	166	257	152	132	105	102	31	7	2	3	\$1,549,837	\$908,073	\$469,098
Burlington.....	2,274	2,246	3,191	1,525	1,680	2,660	707	528	487	42	38	44	12,090,058	6,865,655	8,443,296
Cedar Rapids.....	6,284	4,394	3,665	5,279	3,671	2,795	986	672	674	19	51	96	92,118,386	34,988,838	24,824,276
Clinton.....	3,452	2,679	2,414	2,969	2,290	2,156	469	362	217	14	27	41	30,321,143	10,427,432	7,470,515
Council Bluffs.....	1,891	1,336	1,434	1,575	1,036	1,207	314	277	222	2	23	5	10,610,664	4,279,165	3,768,508
Davenport.....	3,928	3,958	4,231	2,880	2,952	3,203	1,010	976	956	38	30	72	32,587,229	17,172,963	18,801,842
Des Moines.....	7,085	5,306	5,383	5,310	4,194	4,208	1,628	1,075	1,067	147	37	108	59,830,954	23,746,551	23,584,667
Dubuque.....	6,147	5,171	5,160	5,016	4,071	4,153	1,074	1,043	955	57	57	52	34,277,085	14,714,143	15,249,199
Fort Dodge.....	1,605	951	1,115	1,299	695	834	305	238	252	1	18	20	10,884,039	4,871,421	2,975,459
Fort Madison.....	1,029			819			208			2			4,836,291		
Iowa City.....	322	350	282	230	234	206	92	114	76		2		1,767,313	1,333,106	805,046
Keokuk.....	1,598	1,333	1,541	1,272	1,046	1,181	301	262	334	25	25	26	17,554,816	8,250,274	7,398,733
Marshalltown.....	1,338	1,060	1,365	1,178	974	1,207	156	85	132	4	1	26	8,642,468	5,149,858	4,821,805
Mason City.....	2,367	2,054	807	2,235	1,985	766	112	55	41	20	4		29,512,534	11,742,456	2,880,732
Muscatine.....	2,522	2,397	3,496	1,895	1,781	2,618	552	584	759	75	32	119	10,753,750	5,909,485	6,165,866
Ottumwa.....	2,601	2,447	2,650	2,133	1,944	2,025	454	471	546	14	32	70	45,029,524	21,299,929	14,838,315
Sioux City.....	6,749	4,753	3,750	5,738	3,954	3,293	1,001	749	412	10	50	45	140,393,134	49,479,444	37,424,450
Waterloo.....	4,620	3,483	3,124	4,143	3,183	2,712	421	297	409	56	3	3	35,481,225	14,120,178	8,999,420

<sup>1</sup> Figures do not agree with those published, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	75,556	61,051	<i>55,649</i>	88.0	90.0	81.8	July.....	81,343	63,519	62,215	94.8	93.6	91.5
February.....	<i>75,141</i>	60,856	56,081	87.6	89.7	82.5	August.....	83,928	67,845	66,408	97.8	100.0	97.7
March.....	75,692	62,144	57,912	88.2	91.6	85.2	September.....	85,417	67,085	68,006	99.5	98.9	100.0
April.....	76,185	62,970	60,328	88.8	92.8	88.7	October.....	84,496	63,639	64,097	98.5	93.8	94.3
May.....	77,980	62,982	61,440	90.9	92.8	90.3	November.....	85,825	60,946	62,895	100.0	89.8	92.5
June.....	79,963	63,658	62,581	93.2	93.8	92.0	December.....	85,083	<i>60,661</i>	62,018	99.2	89.4	91.2

<sup>1</sup> 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.....	80,551	75,556	<i>75,141</i>	75,692	76,185	77,980	79,963	81,343	83,928	85,417	84,496	<b>85,825</b>	85,083	87.6
Males.....	68,080	63,783	<i>63,765</i>	64,666	65,131	66,561	68,270	69,612	70,045	70,808	70,866	<b>71,994</b>	71,459	88.6
Females.....	12,471	11,773	11,376	<i>11,026</i>	11,054	11,419	11,693	11,731	13,883	14,609	13,630	13,831	13,627	75.5
Agricultural implements.....	906	886	913	924	915	881	892	900	<i>854</i>	856	909	951	991	86.2
Artificial stone products.....	672	<i>511</i>	343	446	699	771	824	846	927	938	825	645	489	33.2
Automobile repairing.....	1,355	<i>1,119</i>	1,139	1,204	1,329	1,371	1,453	1,508	<b>1,532</b>	1,497	1,407	1,377	1,324	73.0
Boots and shoes.....	653	628	648	653	674	668	701	683	659	633	621	<i>610</i>	658	87.0
Bread and other bakery products.....	2,583	2,439	2,361	<i>2,227</i>	2,389	2,487	2,599	2,625	2,688	2,709	2,735	<b>2,881</b>	2,856	77.3
Brick and tile, terra-cotta, and fire-clay products.....	2,452	<i>1,104</i>	1,223	1,008	2,470	2,872	3,103	3,131	<b>3,199</b>	3,144	2,995	2,542	1,733	34.5
Butter.....	1,595	1,321	1,260	<i>1,243</i>	1,470	1,680	1,881	1,784	1,713	1,774	1,745	1,701	1,568	66.1
Buttons.....	2,091	2,040	2,070	2,145	1,976	<i>1,989</i>	1,959	1,983	2,030	2,005	2,164	<i>2,284</i>	<b>2,497</b>	77.7
Canning and preserving, fruits and vegetables.....	1,271	370	<i>326</i>	372	357	441	478	494	4,302	<b>5,365</b>	1,591	779	377	6.1
Cars and general shop construction and repairs by steam-railroad companies.....	13,536	13,836	13,818	13,566	13,385	13,420	<i>13,167</i>	13,248	13,187	13,330	13,611	13,828	<b>14,037</b>	93.7
Cement.....	1,017	<i>536</i>	<i>536</i>	704	976	1,083	1,182	1,191	1,275	1,310	1,283	1,169	959	40.9
Clothing, men's.....	705	622	627	<i>661</i>	592	653	690	766	777	755	781	792	<i>844</i>	66.5
Clothing, women's.....	503	486	487	509	474	<i>467</i>	486	502	525	558	529	532	844	84.0
Confectionery and ice cream.....	1,739	1,557	1,594	<i>1,559</i>	1,620	1,666	1,753	1,690	1,818	1,935	1,879	<b>1,996</b>	1,821	77.1
Copper, tin, and sheet-iron work.....	803	788	720	<i>664</i>	714	716	769	813	844	867	916	911	<i>924</i>	70.8
Engines, steam, gas, and water.....	2,739	3,063	3,390	<b>3,538</b>	3,165	3,030	3,066	3,003	<i>1,489</i>	1,619	2,116	2,485	2,906	42.1
Flour-mill and gristmill products.....	509	518	507	503	493	477	476	475	484	497	542	560	<i>576</i>	82.5
Food preparations, not elsewhere specified.....	2,441	2,696	2,071	1,836	<i>1,710</i>	1,886	2,083	2,316	2,827	2,995	2,945	3,173	2,754	53.9
Foundry and machine-shop products.....	3,529	<b>3,539</b>	3,384	3,354	3,360	3,427	3,441	3,519	3,403	3,509	3,771	3,870	<b>3,971</b>	84.1
Furniture.....	894	730	702	801	821	848	869	903	931	974	1,011	<b>1,043</b>	1,035	70.0
Gas, illuminating and heating.....	727	727	<i>606</i>	714	732	729	711	718	728	748	730	741	750	92.8
Glucose and starch.....	1,007	<b>1,451</b>	1,264	1,061	1,253	1,272	823	834	849	856	869	809	<i>763</i>	53.3
Hardware.....	578	<i>469</i>	491	470	470	495	529	547	632	684	714	<b>718</b>	717	65.3
Ice, manufactured.....	504	535	521	479	322	405	556	717	712	636	503	349	<i>313</i>	43.7
Lumber, planing-mill products, not including planing mills connected with sawmills.....	3,211	<i>2,461</i>	2,086	2,754	2,864	3,045	3,308	3,483	3,555	3,544	3,587	<b>3,633</b>	3,622	67.5



## MANUFACTURES—IOWA.

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.	
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	689	658	297	251	374	410	511	449	494	734	1,004	1,438	1,048	15.2
Printing and publishing, book and job.....	1,244	1,170	1,177	1,187	1,187	1,208	1,209	1,228	1,230	1,255	1,317	1,358	1,402	83.5
Printing and publishing, newspapers and periodicals.....	3,352	3,176	3,237	3,290	3,302	3,206	3,271	3,296	3,311	3,220	3,523	3,550	3,764	84.4
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	830	540	687	700	783	814	844	911	963	958	995	910	903	54.3
Slaughtering and meat packing.....	7,134	8,170	7,757	7,499	6,706	6,715	7,104	7,151	6,487	6,032	6,641	7,292	8,054	73.8
Tobacco, cigars.....	1,305	1,252	1,290	1,302	1,203	1,268	1,243	1,230	1,320	1,346	1,364	1,384	1,353	88.9
Wall plaster and composition flooring.....	884	677	590	638	712	787	854	1,011	1,074	1,070	1,112	1,160	1,022	49.7
Washing machines and clothes wringers.....	1,063	915	907	1,004	1,041	1,072	1,068	1,091	1,075	1,084	1,100	1,154	1,185	77.2
All other industries.....	16,021	15,096	15,296	15,598	15,557	15,711	16,070	16,316	16,048	15,995	16,633	17,194	16,738	87.8
<i>Industries showing large proportion of females.</i>														
Boots and shoes.....	321	315	320	325	333	317	331	325	318	311	313	308	336	91.7
Bread and other bakery products.....	890	897	831	790	822	871	912	901	926	939	969	1,007	980	72.5
Butter.....	207	138	112	116	185	259	288	228	214	274	244	227	190	38.9
Buttons.....	768	733	776	783	753	759	742	706	730	711	753	818	857	83.0
Canning and preserving, fruits and vegetables.....	486	96	83	89	84	110	111	116	1,765	2,325	701	260	92	3.6
Clothing, men's.....	652	573	575	519	542	601	637	711	721	701	725	736	783	66.3
Clothing, women's.....	375	358	357	374	346	541	358	373	308	429	405	405	405	79.5
Confectionery and ice cream.....	954	913	929	860	879	881	870	781	898	1,061	1,069	1,213	1,076	64.4
Food preparations, not elsewhere specified.....	550	649	398	313	261	328	380	404	757	740	748	858	674	30.4
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	143	113	53	30	83	104	128	93	104	173	225	308	313	10.5
Printing and publishing, book and job.....	411	398	303	302	387	391	384	394	393	401	448	461	490	78.4
Printing and publishing, newspapers and periodicals.....	889	864	900	895	892	860	858	850	834	717	933	953	1,112	64.5
Slaughtering and meat packing.....	722	787	740	729	674	709	715	707	683	668	689	759	804	83.1
Tobacco, cigars.....	743	722	757	746	728	722	703	687	705	707	775	793	751	80.6
Total for cities.....	56,181	53,492	53,224	53,330	52,791	54,240	56,176	57,254	56,552	57,133	58,722	60,532	60,727	86.9
Males.....	46,097	43,656	43,096	44,087	45,677	44,703	46,528	47,523	46,155	46,394	47,906	49,246	49,638	87.8
Females.....	10,084	9,835	9,528	9,243	9,214	9,477	9,648	9,731	10,397	10,739	10,816	11,286	11,094	81.6
BOONE.....	369	371	357	359	352	350	380	375	379	366	375	381	377	92.4
Males.....	261	262	251	251	245	250	250	262	275	274	272	273	268	88.4
Females.....	108	109	106	108	107	100	124	113	104	92	103	108	114	74.2
BURLINGTON.....	2,274	2,024	2,078	2,158	2,132	2,240	2,203	2,805	2,372	2,344	2,460	2,470	2,487	81.4
Males.....	1,544	1,370	1,396	1,436	1,422	1,520	1,487	1,574	1,615	1,620	1,670	1,675	1,713	80.0
Females.....	730	654	682	722	710	720	716	731	727	724	790	804	774	81.3
CEDAR RAPIDS.....	6,284	6,840	6,201	6,660	5,687	5,985	6,034	6,249	6,535	6,650	6,534	6,542	6,492	82.7
Males.....	5,295	5,747	5,290	4,937	4,950	5,157	5,203	5,200	5,365	5,421	5,373	5,381	5,477	85.4
Females.....	989	1,123	911	723	738	828	831	1,049	1,170	1,229	1,161	1,161	1,015	58.7
CLINTON.....	3,452	3,184	3,247	3,072	3,245	3,428	3,527	3,490	3,525	3,638	3,683	3,727	3,658	82.4
Males.....	2,981	2,719	2,799	2,724	2,807	2,960	3,043	3,055	3,018	3,139	3,176	3,187	3,118	85.3
Females.....	471	465	451	348	438	468	484	435	477	499	507	540	540	64.4
COUNCIL BLUFFS.....	1,891	1,689	1,757	1,756	1,805	1,848	1,890	1,953	2,007	2,065	2,018	1,958	1,946	81.8
Males.....	1,577	1,403	1,443	1,462	1,494	1,515	1,573	1,666	1,682	1,710	1,677	1,636	1,663	82.0
Females.....	314	286	314	294	311	333	317	287	325	355	341	322	283	79.7
DAVENPORT.....	3,928	3,671	3,718	3,724	3,685	3,721	3,805	3,785	3,927	4,027	4,130	4,461	4,482	81.9
Males.....	2,897	2,653	2,713	2,747	2,733	2,779	2,806	2,842	2,891	2,950	3,016	3,270	3,293	80.4
Females.....	1,031	1,018	1,005	977	952	942	939	943	1,036	1,077	1,114	1,191	1,184	78.8
DES MOINES.....	7,085	6,320	6,230	6,510	6,654	6,748	7,137	7,195	7,366	7,425	7,873	7,959	7,594	78.4
Males.....	5,429	4,761	4,696	4,953	5,078	5,166	5,467	5,573	5,770	5,776	6,098	6,102	5,708	77.0
Females.....	1,656	1,559	1,534	1,557	1,576	1,582	1,670	1,622	1,596	1,649	1,775	1,857	1,886	81.8
DUBUQUE.....	6,147	5,687	5,805	5,661	5,643	5,840	6,046	6,218	6,406	6,480	6,548	6,770	6,754	82.5
Males.....	5,030	4,492	4,728	4,615	4,604	4,785	4,955	5,107	5,284	5,320	5,417	5,551	5,574	80.6
Females.....	1,111	1,095	1,077	1,046	1,039	1,061	1,091	1,111	1,122	1,160	1,131	1,219	1,180	85.2
FORT DODGE.....	1,605	1,327	1,198	1,263	1,280	1,399	1,500	1,694	1,804	1,913	1,983	1,988	1,845	60.3
Males.....	1,300	1,019	968	1,030	1,036	1,135	1,238	1,444	1,517	1,559	1,602	1,602	1,446	59.7
Females.....	305	308	230	233	253	261	262	250	287	354	371	386	399	58.4
FORT MADISON.....	1,020	826	878	952	960	957	1,018	1,081	1,135	1,113	1,112	1,137	1,180	69.9
Males.....	819	677	720	757	748	790	796	866	902	886	871	911	933	72.6
Females.....	210	148	158	195	212	190	222	215	233	227	241	226	247	59.9
IOWA CITY.....	322	251	250	293	270	270	308	347	387	390	363	387	390	64.4
Males.....	230	176	190	188	195	204	227	257	262	269	264	272	250	64.7
Females.....	92	75	60	75	75	75	81	90	125	121	99	115	104	55.2
KEOKUK.....	1,598	1,478	1,496	1,514	1,523	1,547	1,630	1,620	1,648	1,704	1,793	1,690	1,527	82.4
Males.....	1,280	1,154	1,169	1,197	1,235	1,242	1,245	1,245	1,245	1,292	1,392	1,449	1,354	79.6
Females.....	300	324	327	317	288	302	385	375	399	412	401	244	176	82.0
MARSHALLTOWN.....	1,338	1,180	1,170	1,204	1,195	1,203	1,202	1,372	1,371	1,559	1,498	1,506	1,527	76.0
Males.....	1,182	1,094	1,058	1,058	1,048	1,055	1,115	1,224	1,220	1,329	1,296	1,320	1,358	77.2
Females.....	150	96	112	146	147	148	147	148	142	230	202	186	169	41.3
MASON CITY.....	2,367	1,851	1,998	2,085	2,207	2,490	2,704	2,688	2,588	2,521	2,480	2,478	2,545	62.6
Males.....	2,253	1,732	1,892	1,991	2,170	2,384	2,574	2,564	2,474	2,405	2,371	2,358	2,421	61.8
Females.....	114	110	100	94	97	115	130	124	114	116	115	120	124	72.3
MUSCATINE.....	2,522	2,180	2,308	2,423	2,330	2,387	2,451	2,547	2,762	2,677	2,642	2,723	2,834	70.9
Males.....	1,920	1,633	1,733	1,833	1,780	1,811	1,871	1,907	2,120	2,051	2,036	2,085	2,190	74.1
Females.....	602	547	575	590	550	576	580	640	642	626	606	638	644	85.4
OTTUMWA.....	2,001	2,572	2,500	2,578	2,378	2,455	2,638	2,603	2,554	2,555	2,645	2,803	2,867	82.9
Males.....	2,142	2,110	2,105	2,125	1,990	2,028	2,220	2,194	2,104	2,092	2,149	2,283	2,334	84.0
Females.....	459	462	461	453	416	427	418	409	450	463	496	520	533	76.7
SIOUX CITY.....	6,749	7,068	6,900	6,832	6,440	6,419	6,894	6,786	6,619	6,421	6,835	6,945	6,979	90.8
Males.....	5,744	6,083	5,906	5,856	5,482	5,457	5,731	5,614	5,430	5,204	5,578	5,640	5,873	88.8
Females.....	1,005	985	994	976	958	962	1,163	1,172	1,189	1,217	1,257	1,295	1,106	80.2
WATERLOO.....	4,620	5,064	5,295	5,217	4,938	4,940	5,042	4,930	5,135	5,341	5,333	5,495	5,110	59.0
Males.....	4,108	4,611	4,858	4,927	4,583	4,554	4,661	4,551	4,638	4,834	4,829	4,951	4,640	53.5
Females.....	422	453	437	390	355	386	381	379	497	507	404	444	461	70.0



## MANUFACTURES—IOWA.

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	80,551	1,411	4,484	24,733	6,657	15,543	12,013	12,996	2,714
	1914	63,113	( <sup>2</sup> )	( <sup>2</sup> )	10,996	4,210	12,484	7,662	22,800	4,981
	1909	61,635	( <sup>2</sup> )	( <sup>2</sup> )	6,594	2,034	8,072	11,125	27,049	5,861
Agricultural implements.....	1919	906	.....	76	2	213	204	315	96	.....
	1914	1,164	( <sup>2</sup> )	( <sup>2</sup> )	1	141	37	405	580	.....
Artificial stone products.....	1919	672	10	.....	64	11	134	34	419	.....
	1914	809	( <sup>2</sup> )	( <sup>2</sup> )	41	21	168	32	547	.....
Automobile repairing.....	1919	1,355	4	.....	165	29	393	32	717	15
	1914	200	( <sup>2</sup> )	( <sup>2</sup> )	9	.....	32	14	140	5
Boots and shoes.....	1919	653	.....	.....	1	140	265	242	145	.....
	1914	389	( <sup>2</sup> )	( <sup>2</sup> )	.....	.....	.....	243	.....	.....
Bread and other bakery products.....	1919	2,583	35	345	447	353	504	46	732	121
	1914	2,182	( <sup>2</sup> )	( <sup>2</sup> )	97	115	288	588	936	158
Brick and tile, terra-cotta, and fire-clay products.....	1919	2,452	.....	.....	152	5	553	21	1,721	.....
	1914	3,163	( <sup>2</sup> )	( <sup>2</sup> )	118	12	487	19	2,423	104
Butter.....	1919	1,595	44	5	447	14	236	127	667	55
	1914	1,274	( <sup>2</sup> )	( <sup>2</sup> )	158	37	106	16	774	183
Buttons.....	1919	2,091	45	2	1	615	333	989	102	4
	1914	2,406	( <sup>2</sup> )	( <sup>2</sup> )	3	362	664	824	553	.....
Canning and preserving, fruits and vegetables.....	1919	1,271	15	.....	32	7	85	44	862	226
	1914	904	( <sup>2</sup> )	( <sup>2</sup> )	78	38	1	.....	593	194
Cars and general shop construction and repairs by steam-railroad companies.....	1919	13,536	.....	3,656	6,461	.....	479	2,940	.....	.....
	1914	8,024	( <sup>2</sup> )	( <sup>2</sup> )	4,301	676	1,166	16	154	711
Cement *.....	1919	1,017	.....	.....	.....	.....	230	.....	.....	787
Clothing, men's.....	1919	705	242	40	73	242	108	.....	84	.....
	1914	880	( <sup>2</sup> )	( <sup>2</sup> )	188	380	65	157	.....	.....
Clothing, women's.....	1919	503	.....	28	67	408	.....	341	26	.....
	1914	563	.....	.....	.....	171	25	.....	.....	.....
Confectionery and ice cream.....	1919	1,739	6	1	201	347	274	252	552	106
	1914	1,519	( <sup>2</sup> )	( <sup>2</sup> )	27	2	172	277	895	146
Copper, tin, and sheet-iron work.....	1919	803	41	.....	271	52	369	26	44	.....
	1914	553	( <sup>2</sup> )	( <sup>2</sup> )	74	78	215	26	165	.....
Engines, steam, gas, and water.....	1919	2,739	.....	4	584	.....	1,005	383	763	.....
	1914	1,197	( <sup>2</sup> )	( <sup>2</sup> )	456	.....	602	59	80	.....
Flour-mill and gristmill products.....	1919	509	3	.....	112	9	30	3	264	88
	1914	790	( <sup>2</sup> )	( <sup>2</sup> )	26	2	15	.....	655	92
Food preparations, not elsewhere specified.....	1919	2,441	1	.....	1,717	28	33	243	233	186
	1914	1,371	( <sup>2</sup> )	( <sup>2</sup> )	9	3	4	26	427	902
Foundry and machine-shop products *.....	1919	3,548	28	9	238	179	1,596	807	685	6
	1914	3,065	( <sup>2</sup> )	( <sup>2</sup> )	39	209	619	837	1,360	1
Furniture.....	1919	894	40	.....	160	412	220	20	42	.....
	1914	1,106	.....	.....	.....	27	538	206	215	60
Gas, illuminating and heating.....	1919	727	3	.....	68	7	173	162	46	288
	1914	768	( <sup>2</sup> )	( <sup>2</sup> )	27	.....	14	126	322	279
Glucose and starch *.....	1919	1,007	.....	.....	.....	.....	.....	479	.....	528
Hardware.....	1919	578	4	.....	.....	12	439	83	40	.....
	1914	543	( <sup>2</sup> )	( <sup>2</sup> )	1	132	142	83	185	.....
Ice, manufactured.....	1919	504	.....	.....	14	4	126	203	111	46
	1914	192	( <sup>2</sup> )	( <sup>2</sup> )	2	.....	1	18	84	87
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1919	3,211	5	.....	78	120	2,352	40	616	.....
	1914	2,970	( <sup>2</sup> )	( <sup>2</sup> )	187	15	549	270	1,949	.....
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	1919	689	.....	.....	6	.....	56	20	607	.....
	1914	481	( <sup>2</sup> )	( <sup>2</sup> )	8	16	47	.....	359	51
Printing and publishing, book and job.....	1919	1,244	10	10	1,052	54	108	10	.....	.....
	1914	1,303	( <sup>2</sup> )	( <sup>2</sup> )	731	149	388	17	18	.....
Printing and publishing, newspapers and periodicals.....	1919	3,352	29	12	2,074	353	596	223	65	.....
	1914	3,397	( <sup>2</sup> )	( <sup>2</sup> )	1,486	369	1,003	313	228	8
Rubber tires, tubes, and rubber goods, not elsewhere specified *.....	1919	839	.....	.....	385	64	150	240	.....	.....
Slaughtering and meat packing.....	1919	7,134	136	.....	5,190	.....	26	41	1,741	5
	1914	4,413	( <sup>2</sup> )	( <sup>2</sup> )	7	.....	207	.....	4,194	.....
Tobacco, cigars.....	1919	1,305	126	13	529	454	129	26	24	4
	1914	1,662	( <sup>2</sup> )	( <sup>2</sup> )	975	398	224	11	54	.....
Wall plaster and composition flooring.....	1919	884	.....	.....	865	.....	15	.....	4	.....
	1914	599	.....	.....	.....	.....	273	.....	326	.....
Washing machines and clothes wringers.....	1919	1,063	.....	.....	.....	33	402	555	106	.....
	1914	375	.....	.....	.....	.....	217	21	104	.....
All other industries.....	1919	16,002	584	283	3,278	2,519	3,920	3,407	1,737	274
	1914	14,846	( <sup>2</sup> )	( <sup>2</sup> )	1,916	828	3,215	2,657	4,225	2,005

<sup>1</sup> Includes 48 and under for 1914 and 1909.  
<sup>2</sup> Corresponding figures not available.

\* Not shown separately in 1914.  
<sup>4</sup> Includes "iron and steel, tempering, welding, etc."



## 11

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 1914	59, 181 44, 174	1, 148 (2)	3, 509 (2)	18, 184 7, 716	5, 676 2, 012	12, 010 8, 124	6, 610 5, 065	6, 069 16, 751	2, 066 4, 006
BOONE.....	1919 1914	369 256	2 (2)	----- (2)	266 50	3 9	71 20	16 77	6 70	5 21
BURLINGTON.....	1919 1914	2, 274 2, 246	192 (2)	34 (2)	562 373	1, 238 85	137 299	31 270	72 1, 176	8 34
CEDAR RAPIDS.....	1919 1914	6, 284 4, 394	10 (2)	52 (2)	4, 309 917	297 54	748 345	205 310	400 1, 465	263 1, 303
CLINTON.....	1919 1914	3, 452 2, 679	5 (2)	104 (2)	1, 625 611	283 280	771 225	491 620	79 574	4 369
COUNCIL BLUFFS.....	1919 1914	1, 891 1, 336	50 (2)	132 (2)	133 218	14 113	146 106	799 135	538 579	79 185
DAVENPORT.....	1919 1914	3, 928 3, 058	374 (2)	13 (2)	641 968	350 601	897 639	499 472	970 1, 171	184 207
DES MOINES.....	1919 1914	7, 085 5, 306	338 (2)	437 (2)	2, 897 1, 078	790 318	1, 789 1, 922	566 997	201 1, 026	67 265
DUBUQUE.....	1919 1914	6, 147 5, 171	----- (2)	1, 300 (2)	448 1, 202	525 180	2, 902 942	503 596	379 2, 142	----- 109
FORT DODGE.....	1919 1914	1, 605 951	2 (2)	----- (2)	346 29	10 49	393 150	439 261	396 400	19 62
FORT MADISON *.....	1919	1, 029	14	77	461	205	32	78	8	04
IOWA CITY.....	1919 1914	322 350	12 (2)	----- (2)	124 59	42 88	122 108	----- 19	14 50	8 20
KROOK.....	1919 1914	1, 598 1, 333	3 (2)	3 (2)	126 101	77 114	260 132	484 148	273 522	372 310
MARSHALLTOWN.....	1919 1914	1, 338 1, 060	3 (2)	----- (2)	554 80	58 151	340 401	98 50	271 358	14 20
MASON CITY.....	1919 1914	2, 367 2, 054	4 (2)	137 (2)	707 103	24 66	25 235	154 5	547 760	769 895
MUSCATINE.....	1919 1914	2, 522 2, 397	6 (2)	----- (2)	125 226	346 365	656 442	986 593	395 769	8 2
OTTUMWA.....	1919 1914	2, 001 2, 447	----- (2)	----- (2)	1, 405 94	665 103	403 450	21 48	73 1, 637	34 55
SIoux CITY.....	1919 1914	6, 749 4, 753	125 (2)	352 (2)	2, 671 952	520 240	584 462	241 937	2, 101 2, 307	95 95
WATERLOO.....	1919 1914	4, 020 3, 483	8 (2)	688 (2)	784 616	139 136	1, 743 1, 246	999 718	186 689	73 48

<sup>1</sup> Includes 48 and under for 1914 and 1909.

<sup>2</sup> Corresponding figures not available.

<sup>a</sup> Not shown separately in 1914.

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.....	5,683	80,551	770	3,492	7,101	813	8,921	322	10,468	136	9,470	96	15,048	25	8,650	12	8,878	9	12,015
Agricultural implements.....	20	906	2	9	18	8	90	2	75	1	77	4	648	.....	.....	.....	.....	.....	.....
Artificial stone products.....	255	672	30	187	273	24	256	5	143	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Automobile repairing.....	579	1,355	41	408	998	40	357	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boots and shoes.....	6	653	.....	.....	.....	1	11	1	43	.....	60	2	274	1	265	.....	.....	.....	.....
Bread and other bakery products.....	538	2,583	80	308	760	44	441	14	433	2	119	5	840	.....	.....	.....	.....	.....	.....
Brick and tile, terra-cotta, and fire-clay products.....	113	2,452	1	47	100	32	357	15	541	14	880	4	514	.....	.....	.....	.....	.....	.....
Butter.....	411	1,595	26	342	628	35	368	4	133	1	78	3	358	.....	.....	.....	.....	.....	.....
Buttons.....	77	2,091	4	28	70	24	204	9	282	5	367	7	1,078	.....	.....	.....	.....	.....	.....
Canning and preserving, fruits and vegetables.	62	1,271	.....	8	23	30	369	23	605	.....	.....	1	184	.....	.....	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies.....	51	13,536	.....	6	15	4	70	5	180	7	476	13	2,250	7	2,446	0	4,399	3	3,700
Cement.....	4	1,017	.....	.....	.....	.....	.....	.....	.....	1	53	1	230	2	734	.....	.....	.....	.....
Clothing, men's.....	18	705	.....	2	3	2	38	10	371	4	293	.....	.....	.....	.....	.....	.....	.....	.....
Clothing, women's.....	10	503	.....	.....	.....	3	33	5	153	1	67	1	256	.....	.....	.....	.....	.....	.....
Confectionery and ice cream.....	182	1,730	23	120	234	22	242	7	239	9	680	.....	.....	1	344	.....	.....	.....	.....
Copper, tin, and sheet-iron work.....	120	803	6	83	145	25	250	1	22	4	247	1	139	.....	.....	.....	.....	.....	.....



## MANUFACTURES—IOWA.

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.				
Engines, steam, gas, and water.....	17	2,739	...	4	13	4	38	2	53	1	63	3	496	1	366	2	1,710	...	...
Flour-mill and gristmill products.....	189	509	40	133	212	12	141	3	104	1	52	3	574	...	...	...	...	...	...
Food preparations, not elsewhere specified.....	30	2,441	2	17	35	5	64	1	28	1	60	3	574	...	...	...	...	...	...
Foundry and machine-shop products.....	193	3,529	12	98	245	48	495	24	835	7	593	8	946	1	415	...	...	1	1,680
Furniture.....	80	894	2	12	32	9	114	10	344	2	184	1	220	...	...	...	...	...	...
Gas, illuminating and heating.....	68	727	1	47	119	9	117	8	229	2	139	1	123	...	...	...	...	...	...
Glucose and starch.....	4	1,007	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hardware.....	10	578	...	2	4	4	61	...	...	2	161	2	352	...	...	...	...	...	...
Ice, manufactured.....	40	504	1	28	85	11	126	5	162	...	...	1	131	...	...	...	...	...	...
Lumber, planing-mill products, not including planing mills connected with sawmills.....	97	3,211	7	46	114	20	245	12	410	6	451	2	279	3	1,031	1	681	...	...
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	47	689	...	19	61	21	257	4	115	3	256	...	...	...	...	...	...	...	...
Printing and publishing, book and job.....	207	1,244	42	102	263	49	512	12	345	2	119	...	...	...	...	...	...	...	...
Printing and publishing, newspapers and periodicals.....	774	3,352	179	504	1,088	62	633	20	598	5	321	3	459	1	253	...	...	...	...
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	9	839	1	...	...	3	48	1	24	1	57	2	325	1	385	...	...	...	...
Slaughtering and meat packing.....	21	7,134	...	3	7	6	64	2	92	1	59	2	311	2	730	1	585	4	5,286
Tobacco, cigars.....	211	1,305	74	102	212	24	244	4	126	4	242	3	481	...	...	...	...	...	...
Wall plaster and composition flooring.....	7	884	...	1	5	2	25	2	78	...	...	1	246	...	...	1	530	...	...
Washing machines and clothes wringers.....	14	1,063	...	...	...	3	34	4	163	4	314	2	248	1	304	1	973	1	1,340
All other industries.....	1,246	10,021	195	651	1,284	227	2,497	107	3,452	43	3,002	19	2,863	2	601	1	973	1	1,340
Total for cities.....	2,310	50,181	234	1,106	2,587	520	5,821	238	7,822	103	7,275	75	11,843	21	7,224	7	5,320	6	8,289
BOONE.....	39	369	4	27	62	5	63	1	48	1	95	1	101	...	...	...	...	...	...
BURLINGTON.....	97	2,274	8	45	120	19	201	14	456	7	543	3	588	1	366	...	...	...	...
CEDAR RAPIDS.....	208	6,284	20	110	252	46	474	17	556	7	506	5	852	...	...	1	824	2	2,820
CLINTON.....	119	3,452	17	50	97	25	268	12	381	6	436	6	850	2	799	1	621	...	...
COUNCIL BLUFFS.....	111	1,891	10	61	131	24	273	10	318	2	119	1	122	3	928	...	...	...	...
DAVENPORT.....	219	3,928	17	117	276	47	517	19	666	8	551	9	1,236	2	682	...	...	...	...
DES MOINES.....	379	7,085	62	141	327	85	988	54	1,767	24	1,643	12	2,008	1	352	...	...	...	...
DUBUQUE.....	131	6,147	8	58	151	29	324	19	653	7	459	6	880	2	697	2	1,654	1	1,323
FORT DODGE.....	80	1,605	6	44	108	16	167	6	206	5	387	2	472	1	265	...	...	...	...
FORT MADISON.....	34	1,029	2	18	47	7	84	3	127	2	144	1	242	1	385	...	...	...	...
IOWA CITY.....	49	322	12	18	44	16	170	3	108	...	...	...	...	...	...	...	...	...	...
KEOKUK.....	71	1,598	8	31	88	13	132	10	354	5	303	3	424	1	297	...	...	...	...
MARSHALLTOWN.....	62	1,338	2	33	83	12	154	10	315	3	253	1	184	1	349	...	...	...	...
MASON CITY.....	59	2,367	3	30	70	12	136	4	118	3	181	4	512	2	734	1	586	...	...
MUSCATINE.....	146	2,522	9	84	194	37	474	4	103	3	233	8	1,171	1	347	...	...	...	...
OTTUMWA.....	94	2,001	8	46	101	22	252	11	337	3	244	3	450	...	...	...	...	1	1,217
SIoux CITY.....	251	6,749	20	121	275	70	722	20	597	10	707	6	874	2	645	...	...	2	2,929
WATERLOO.....	161	4,620	18	72	161	35	422	21	712	7	471	5	841	1	378	2	1,635	...	...

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.....	5,683	5,614	5,528	80,551	63,113	61,635	\$745,472,697	\$310,749,974	\$259,237,637	\$225,231,890	\$105,298,635	\$88,530,559
Less than \$5,000.....	1,491	2,144	2,281	930	2,230	2,639	3,883,673	5,438,188	5,437,954	2,426,493	3,452,552	3,474,403
\$5,000 to \$20,000.....	1,985	1,866	1,690	4,808	6,693	6,836	20,732,463	19,176,618	18,965,804	11,684,884	10,321,195	9,175,990
\$20,000 to \$100,000.....	1,381	1,165	1,156	10,219	13,110	14,344	64,432,786	51,971,869	50,150,907	25,566,436	19,864,668	18,679,294
\$100,000 to \$500,000.....	642	356	366	21,019	29,359	27,422	136,851,077	73,326,758	91,097,657	56,009,329	47,624,555	33,737,562
\$500,000 to \$1,000,000.....	87	49	---	8,489	---	---	58,983,459	35,203,676	---	24,565,177	---	---
\$1,000,000 and over.....	97	34	29	35,086	11,721	10,394	400,589,239	125,632,865	95,585,315	104,979,571	24,035,665	18,463,340
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.....	26.2	38.2	41.3	1.2	3.5	4.3	0.5	1.8	2.1	1.1	3.3	3.9
\$5,000 to \$20,000.....	34.9	33.2	30.7	6.0	10.6	11.1	2.8	6.2	6.5	5.2	9.8	10.4
\$20,000 to \$100,000.....	24.3	20.8	20.9	12.7	20.8	23.3	8.6	16.7	19.3	11.4	18.9	21.1
\$100,000 to \$500,000.....	11.3	6.3	---	26.1	46.5	44.5	18.4	23.6	35.1	24.6	45.2	43.8
\$500,000 to \$1,000,000.....	1.5	0.9	---	10.5	---	---	7.9	11.3	---	10.9	---	---
\$1,000,000 and over.....	1.7	0.6	0.5	43.6	18.6	16.9	61.8	40.4	38.9	46.6	22.8	20.9



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.			
			Per cent distribution.				Per cent distribution.				Per cent distribution.				Per cent distribution.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
<b>BREAD AND OTHER BAKERY PRODUCTS.</b>	538	518	100.0	100.0	2,583	2,182	100.0	100.0	\$20,244,007	\$9,150,514	100.0	100.0	\$7,733,476	\$3,984,791	100.0	100.0
Less than \$5,000.....	63	168	11.7	32.4	19	126	0.7	5.8	188,144	522,701	0.9	5.7	67,583	249,099	0.9	6.3
\$5,000 to \$20,000.....	209	290	38.8	56.0	370	633	14.3	29.0	3,278,778	2,011,835	16.2	31.8	1,244,090	1,322,560	16.1	33.2
\$20,000 to \$100,000.....	146	46	27.1	8.9	685	416	26.5	19.1	5,851,618	1,050,298	28.9	18.0	1,877,811	682,654	24.3	17.1
\$100,000 to \$500,000.....	24	10	4.5	1.9	620	1,007	24.0	46.1	5,180,228	1,701,802	25.6	18.6	1,795,283	1,731,078	23.2	43.4
\$500,000 to \$1,000,000.....	3	4	0.6	0.8	336	336	13.0	0.0	2,370,969	2,363,818	11.7	25.8	1,120,309	1,120,309	14.5	0.0
\$1,000,000 and over.....	3	0	0.6	0.0	553	0	21.4	0.0	3,362,330	0	16.6	0.0	1,628,340	0	21.1	0.0
<b>BUTTER.</b>	411	474	100.0	100.0	1,595	1,274	100.0	100.0	56,422,287	27,028,255	100.0	100.0	6,982,806	3,425,998	100.0	100.0
Less than \$5,000.....	8	13	1.9	2.7	4	6	0.3	0.5	23,107	35,009	(2)	0.1	5,463	5,433	0.1	0.2
\$5,000 to \$20,000.....	22	102	5.4	21.5	15	113	0.9	8.9	350,653	1,428,290	0.6	5.3	37,668	218,524	0.5	6.4
\$20,000 to \$100,000.....	242	317	58.9	66.9	306	593	24.8	46.5	13,523,799	14,243,580	24.0	52.7	1,275,106	1,409,828	18.3	41.1
\$100,000 to \$500,000.....	122	42	29.7	8.9	479	502	30.0	44.1	20,901,198	11,321,376	37.2	41.9	2,136,954	1,792,183	30.6	52.3
\$500,000 and over.....	17	0	4.1	0.0	701	0	43.9	0.0	21,631,180	0	38.2	0.0	3,527,615	0	50.5	0.0
<b>CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES.</b>	51	36	100.0	100.0	13,536	8,021	100.0	100.0	33,098,600	11,433,088	100.0	100.0	20,879,630	6,700,463	100.0	100.0
Less than \$20,000.....	0	0	0.0	0.0	16	0	0.1	0.0	30,101	0	0.1	0.0	30,750	0	0.1	0.0
\$20,000 to \$100,000.....	7	4	13.7	36.1	150	477	1.2	5.9	382,829	661,097	1.2	5.8	268,292	435,792	1.3	6.5
\$100,000 to \$500,000.....	19	14	37.3	38.9	2,164	7,547	16.0	94.1	4,624,940	3,704,314	13.7	32.4	3,191,826	3,260,671	15.3	93.5
\$500,000 to \$1,000,000.....	7	9	13.7	25.0	1,042	0	7.7	0.0	4,663,814	7,068,577	13.8	61.8	3,255,547	7,068,577	15.6	0.0
\$1,000,000 and over.....	12	0	23.5	0.0	9,288	0	68.4	0.0	23,680,907	0	71.3	0.0	14,133,215	0	67.7	0.0
<b>CONFECTIONERY AND ICE CREAM.</b>	182	176	100.0	100.0	1,730	1,519	100.0	100.0	11,534,628	5,086,438	100.0	100.0	4,663,725	1,980,324	100.0	100.0
Less than \$5,000.....	39	58	21.4	33.0	20	45	1.1	3.0	112,224	171,860	1.0	3.4	49,492	76,423	1.1	3.8
\$5,000 to \$20,000.....	66	73	36.3	41.5	100	155	5.8	10.2	729,560	725,816	6.3	14.3	316,909	328,343	6.8	16.5
\$20,000 to \$100,000.....	52	33	28.6	18.7	254	355	14.6	23.4	2,336,411	1,351,921	20.3	26.6	600,251	500,251	17.6	25.5
\$100,000 to \$500,000.....	22	12	12.1	6.8	808	1,064	46.8	69.5	5,360,008	2,837,341	46.5	55.8	2,328,150	1,075,807	49.9	54.1
\$500,000 and over.....	3	0	1.6	0.0	407	0	23.6	0.0	2,996,416	0	26.0	0.0	1,148,731	0	24.6	0.0
<b>ENGINES, STEAM, GAS, AND WATER.</b>	17	20	100.0	100.0	2,730	1,197	100.0	100.0	17,610,778	3,585,946	100.0	100.0	8,716,280	2,265,838	100.0	100.0
Less than \$5,000.....	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0
\$5,000 to \$20,000.....	4	7	17.6	35.0	4	44	0.3	3.7	21,687	83,329	0.1	2.3	9,702	44,782	0.1	2.0
\$20,000 to \$100,000.....	0	4	35.3	20.0	65	102	2.4	8.5	332,416	301,622	1.9	8.4	184,390	144,625	2.1	6.4
\$100,000 to \$500,000.....	13	4	17.6	20.0	1,218	1,044	44.1	87.2	1,063,147	3,192,529	6.1	89.0	1,441,135	2,069,969	5.1	91.4
\$1,000,000 and over.....	5	0	20.4	0.0	2,418	0	88.3	0.0	10,188,528	0	91.9	0.0	8,081,053	0	92.7	0.0
<b>FLOUR-MILL AND GRISTMILL PRODUCTS.</b>	189	227	100.0	100.0	509	790	100.0	100.0	21,324,678	14,336,576	100.0	100.0	2,711,616	2,578,840	100.0	100.0
Less than \$5,000.....	10	44	10.1	19.4	3	22	0.6	2.8	47,200	117,277	0.2	0.8	7,962	26,362	0.3	1.0
\$5,000 to \$20,000.....	54	80	28.6	39.2	27	83	5.3	10.5	641,090	639,787	3.0	6.6	135,081	187,555	5.0	7.3
\$20,000 to \$100,000.....	80	74	45.6	32.6	137	181	26.9	22.9	4,110,568	3,132,307	19.3	21.8	610,580	622,384	23.8	24.1
\$100,000 to \$500,000.....	21	14	11.1	6.2	114	1,282	22.4	35.7	3,000,039	2,630,159	18.3	20.4	530,023	1,622,304	19.8	24.1
\$500,000 to \$1,000,000.....	4	3	2.1	1.3	53	0	10.4	0.0	2,849,782	1,695,715	13.4	13.9	849,114	0	12.9	0.0
\$1,000,000 and over.....	5	3	2.6	1.3	175	222	34.4	28.1	9,709,935	5,221,271	45.8	30.4	1,030,300	1,120,235	38.2	43.4
<b>FOOD PREPARATIONS, NOT ELSEWHERE SPECIFIED.</b>	30	24	100.0	100.0	2,441	1,371	100.0	100.0	54,994,131	15,459,961	100.0	100.0	9,732,190	4,066,995	100.0	100.0
Less than \$5,000.....	8	7	20.7	29.2	4	8	0.2	0.6	15,808	20,430	(2)	0.1	8,815	0,081	0.1	0.2
\$5,000 to \$20,000.....	8	4	20.7	16.7	18	8	0.7	0.6	93,901	41,408	0.2	0.3	42,330	16,713	0.4	0.4
\$20,000 to \$100,000.....	4	7	13.3	29.2	20	81	0.8	5.9	223,835	423,530	0.4	2.8	73,309	165,553	0.8	4.1
\$100,000 and over.....	10	6	33.3	25.0	2,399	1,274	98.3	92.9	54,660,497	14,972,535	99.4	96.8	9,600,086	3,874,748	98.7	95.3
<b>FOUNDRY AND MACHINE-SHOP PRODUCTS.</b>	206	225	100.0	100.0	3,548	3,065	100.0	100.0	18,636,163	9,306,145	100.0	100.0	10,530,647	5,035,514	100.0	100.0
Less than \$5,000.....	41	67	19.9	25.3	29	54	0.8	1.8	117,503	138,830	0.6	1.5	81,304	92,400	0.8	1.8
\$5,000 to \$20,000.....	70	88	34.0	39.1	212	372	6.0	12.1	809,188	878,008	4.3	9.4	509,150	552,126	4.8	11.0
\$20,000 to \$100,000.....	48	62	23.3	27.6	461	1,034	13.0	33.7	2,273,018	3,182,449	12.2	34.2	1,302,172	1,821,443	12.4	36.2
\$100,000 to \$500,000.....	42	18	20.4	8.0	2,013	1,005	56.7	52.4	6,378,081	3,105,958	50.3	51.9	5,365,653	2,560,539	50.9	51.0
\$500,000 and over.....	5	0	2.4	0.0	803	0	22.6	0.0	6,058,373	0	32.5	0.0	3,278,299	0	31.1	0.0
<b>LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS.</b>	97	92	100.0	100.0	3,211	2,970	100.0	100.0	16,387,832	10,713,495	100.0	100.0	7,602,036	4,465,292	100.0	100.0
Less than \$5,000.....	13	23	13.4	25.0	6	21	0.2	0.7	34,376	57,378	0.2	0.5	20,167	34,361	0.3	0.8
\$5,000 to \$20,000.....	30	25	30.9	27.2	80	151	2.5	5.1	302,662	360,690	1.8	3.4	145,716	183,052	1.9	4.1
\$20,000 to \$100,000.....	31	23	32.0	25.0	384	340	12.0	11.4	1,673,232	1,097,036	10.2	10.2	723,307	440,091	9.5	9.9
\$100,000 to \$500,000.....	10	16	16.5	17.4	709	2,468	22.1	82.8	3,812,538	3,789,951	23.3	35.3	1,698,223	3,807,188	22.3	85.3
\$500,000 and over.....	7	5	7.2	5.4	2,032	0	63.3	0.0	10,565,624	5,411,440	64.5	50.5	5,014,023	0	66.0	0.0
<b>POULTRY, KILLING AND DRESSING, NOT DONE IN SLAUGHTERING AND MEAT-PACKING ESTABLISHMENTS.</b>	47	35	100.0	100.0	689	481	100.0	100.0	11,449,501	4,672,565	100.0	100.0	1,683,698	650,334	100.0	100.0
Less than \$20,000.....	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0
\$20,000 to \$100,000.....	20	15	42.6	42.9	83	96	12.0	20.0	1,109,382	94,809	9.7	14.7	237,455	22,748	14.1	22.4
\$100,000 to \$500,000.....	23	11	48.9	31.4	336	1,306	48.8	76.1	5,841,171	3,892,102	51.0	83.3	849,828	1,431,744	50.5	74.1
\$500,000 and over.....	4	0	8.5	0.0	270	0	39.2	0.0	4,498,948	0	39.3	0.0	596,415	0	35.4	0.0

1 Includes the group "\$500,000 to \$1,000,000."

2 Less than one-tenth of 1 per cent.

3 Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

4 Includes the group "Less than \$5,000."

5 Includes the group "\$1,000,000 and over."

6 Includes "iron and steel, tempering, welding, etc."



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

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
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	774	874	100.0	100.0	3,352	3,397	100.0	100.0	\$20,430,956	\$11,455,048	100.0	100.0	\$14,964,558	\$8,831,129	100.0	100.0
Less than \$5,000.....	324	526	41.9	60.2	212	645	6.3	19.0	934,627	1,409,827	4.6	12.3	719,926	1,159,919	4.8	13.1
\$5,000 to \$20,000.....	347	275	44.8	31.5	880	1,054	26.3	31.0	3,265,994	2,424,082	16.0	21.2	2,521,809	1,950,945	16.9	22.2
\$20,000 to \$100,000.....	74	50	9.6	5.7	770	599	23.0	17.6	3,089,062	1,992,813	15.1	17.4	2,266,812	1,531,754	15.1	17.3
\$100,000 to \$500,000.....	22	20	2.8	2.3	644	1,099	19.2	32.4	5,158,652	3,675,413	25.2	32.1	3,703,758	4,179,511	24.7	47.3
\$500,000 to \$1,000,000.....	4	3	0.5	0.3	256	.....	7.6	.....	2,427,691	1,952,913	11.9	17.0	1,484,830	.....	9.9	.....
\$1,000,000 and over.....	3	.....	0.4	.....	590	.....	17.6	.....	5,554,930	.....	27.2	.....	4,207,363	.....	28.5	.....
SLAUGHTERING AND MEAT PACKING.....	21	28	100.0	100.0	7,134	4,413	100.0	100.0	226,361,698	74,171,865	100.0	100.0	21,941,012	6,398,357	100.0	100.0
Less than \$100,000.....	5	12	23.8	42.9	25	55	0.4	1.2	317,566	506,242	0.1	0.7	69,730	118,365	0.3	1.8
\$100,000 to \$500,000.....	4	17	19.0	25.0	46	1,142	0.6	3.2	1,165,520	12,511,249	0.5	3.4	125,811	1,246,620	0.6	3.9
\$1,000,000 and over.....	12	9	57.1	32.1	7,063	4,216	99.0	95.5	224,878,612	71,154,374	99.3	95.9	21,748,471	6,033,372	99.1	94.3

1 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.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
BOONE.....	39	369	100.0	\$1,549,837	100.0	\$850,900	100.0	DUBUQUE.....	131	6,147	100.0	\$34,277,085	100.0	\$14,325,197	100.0
Less than \$5,000.....	5	2	0.5	16,478	1.1	10,468	1.2	Less than \$5,000.....	16	15	0.3	48,962	0.1	36,359	0.3
\$5,000 to \$20,000.....	20	41	11.1	252,370	16.3	149,466	17.6	\$5,000 to \$20,000.....	40	113	1.8	472,003	1.4	272,604	1.9
\$20,000 to \$100,000.....	11	82	22.2	523,179	33.8	276,851	32.5	\$20,000 to \$100,000.....	36	371	6.0	2,009,264	5.9	854,487	6.0
\$100,000 to \$500,000.....	3	244	66.1	757,810	48.9	414,115	48.7	\$100,000 to \$500,000.....	25	1,126	18.3	6,049,489	17.6	2,810,259	19.6
								\$500,000 to \$1,000,000.....	5	531	8.6	3,563,373	10.4	1,271,586	8.9
								\$1,000,000 and over.....	9	3,991	64.9	22,133,994	64.6	9,079,922	63.4
BURLINGTON.....	97	2,274	100.0	12,090,058	100.0	5,307,835	100.0	FORT DODGE.....	80	1,605	100.0	10,884,039	100.0	3,686,360	100.0
Less than \$5,000.....	19	14	0.6	52,102	0.4	32,269	0.6	Less than \$5,000.....	11	5	0.3	29,700	0.3	20,143	0.5
\$5,000 to \$20,000.....	25	93	4.1	290,048	2.4	173,140	3.3	\$5,000 to \$20,000.....	32	85	5.3	366,020	3.4	225,171	6.1
\$20,000 to \$100,000.....	27	278	12.2	1,449,859	12.0	621,211	11.7	\$20,000 to \$100,000.....	21	178	11.1	873,372	8.0	474,600	12.9
\$100,000 to \$500,000.....	21	943	41.5	5,338,052	44.2	2,189,995	41.3	\$100,000 to \$500,000.....	12	542	33.8	3,086,416	28.4	1,471,602	39.9
\$500,000 and over.....	5	946	41.6	4,959,937	41.0	2,291,220	43.2	\$500,000 and over.....	4	795	49.5	6,528,531	60.0	1,494,784	40.5
CEDAR RAPIDS.....	208	6,284	100.0	92,118,386	100.0	20,052,457	100.0	FORT MADISON.....	34	1,029	100.0	4,836,291	100.0	2,193,368	100.0
Less than \$5,000.....	32	15	0.2	81,206	0.1	53,491	0.3	Less than \$5,000.....	4	2	0.2	9,759	0.2	6,632	0.3
\$5,000 to \$20,000.....	75	182	2.9	839,578	0.9	508,287	2.5	\$5,000 to \$20,000.....	12	33	3.2	124,282	2.6	70,443	3.2
\$20,000 to \$100,000.....	59	468	7.4	2,500,107	2.7	1,265,713	6.3	\$20,000 to \$100,000.....	12	168	16.3	616,818	12.8	291,768	13.3
\$100,000 to \$500,000.....	33	1,161	18.5	7,004,542	7.6	3,707,503	18.5	\$100,000 to \$500,000.....	6	826	80.3	4,085,432	84.5	1,824,525	83.2
\$500,000 to \$1,000,000.....	3	204	3.2	2,196,244	2.4	1,161,106	5.8								
\$1,000,000 and over.....	6	4,254	67.7	79,496,709	86.3	13,356,357	66.6								
CLINTON.....	119	3,452	100.0	30,321,143	100.0	10,976,010	100.0	IOWA CITY.....	49	322	100.0	1,767,313	100.0	841,503	100.0
Less than \$5,000.....	28	17	0.5	67,485	0.2	40,429	0.4	Less than \$5,000.....	13	6	1.9	25,185	1.4	14,544	1.7
\$5,000 to \$20,000.....	35	91	2.6	383,918	1.3	208,516	1.9	\$5,000 to \$20,000.....	17	54	16.8	162,554	9.2	83,019	9.9
\$20,000 to \$100,000.....	30	303	8.8	1,566,023	5.2	799,845	7.3	\$20,000 to \$100,000.....	14	132	41.0	655,502	37.1	338,891	40.3
\$100,000 to \$500,000.....	16	865	25.1	3,815,705	12.6	1,805,411	16.4	\$100,000 to \$500,000.....	5	130	40.4	924,072	52.3	405,139	48.1
\$500,000 to \$1,000,000.....	4	426	12.3	2,393,411	7.9	831,150	7.6								
\$1,000,000 and over.....	6	1,750	50.7	22,094,601	72.9	7,290,659	66.4								
COUNCIL BLUFFS.....	111	1,891	100.0	10,610,664	100.0	5,068,358	100.0	KROOK.....	71	1,598	100.0	17,554,816	100.0	5,638,309	100.0
Less than \$5,000.....	22	15	0.8	56,158	0.5	37,176	0.7	Less than \$5,000.....	15	14	0.9	35,507	0.2	17,725	0.3
\$5,000 to \$20,000.....	36	91	4.8	393,871	3.7	203,415	4.0	\$5,000 to \$20,000.....	22	78	4.9	249,009	1.4	139,137	2.5
\$20,000 to \$100,000.....	32	278	14.7	1,312,794	12.7	687,390	13.6	\$20,000 to \$100,000.....	15	183	11.5	861,150	4.9	422,856	7.5
\$100,000 to \$500,000.....	16	490	25.9	3,093,612	29.2	1,698,473	33.5	\$100,000 to \$500,000.....	13	509	31.9	3,000,404	17.1	1,100,060	19.5
\$500,000 and over.....	5	1,017	53.5	5,724,229	53.9	2,441,904	48.2	\$500,000 and over.....	6	814	50.9	13,408,146	76.4	3,958,531	70.2
DAVENPORT.....	219	3,928	100.0	32,587,229	100.0	11,025,434	100.0	MARSHALLTOWN.....	62	1,338	100.0	8,642,468	100.0	3,665,814	100.0
Less than \$5,000.....	31	22	0.6	78,260	0.2	50,800	0.5	Less than \$5,000.....	7	5	0.4	22,188	0.3	14,894	0.4
\$5,000 to \$20,000.....	77	171	4.4	849,411	2.6	465,802	4.2	\$5,000 to \$20,000.....	21	73	5.5	311,577	3.6	139,471	3.8
\$20,000 to \$100,000.....	59	542	13.8	2,836,987	8.7	1,492,674	13.5	\$20,000 to \$100,000.....	16	125	9.3	722,075	8.4	329,721	9.0
\$100,000 to \$500,000.....	39	1,348	34.3	8,855,772	27.2	4,019,433	36.5	\$100,000 to \$500,000.....	14	471	35.2	3,097,776	35.8	1,735,949	47.4
\$500,000 to \$1,000,000.....	7	687	17.5	4,478,362	13.7	2,086,939	18.9	\$500,000 and over.....	4	664	49.6	4,488,852	51.9	1,445,779	39.4
\$1,000,000 and over.....	6	1,158	29.5	15,488,437	47.5	2,909,786	26.4								
DES MOINES.....	379	7,085	100.0	59,830,954	100.0	23,540,392	100.0	MASON CITY.....	59	2,367	100.0	29,512,534	100.0	6,458,085	100.0
Less than \$5,000.....	67	34	0.5	187,048	0.3	134,028	0.5	Less than \$5,000.....	9	6	0.3	27,196	0.1	16,692	0.3
\$5,000 to \$20,000.....	100	221	3.1	1,141,647	1.9	684,141	2.6	\$5,000 to \$20,000.....	17	49	2.1	189,236	0.6	104,852	1.6
\$20,000 to \$100,000.....	114	1,167	16.5	5,602,153	9.4	3,109,882	11.7	\$20,000 to \$100,000.....	16	151	6.4	743,267	2.5	342,408	5.3
\$100,000 to \$500,000.....	71	2,816	39.7	16,066,375	27.9	8,516,759	32.1	\$100,000 to \$500,000.....	12	650	27.5	2,455,968	8.3	1,227,121	19.0
\$500,000 to \$1,000,000.....	15	1,022	14.4	10,164,550	17.0	3,889,643	14.7	\$500,000 and over.....	5	1,511	63.8	26,098,867	88.4	4,767,012	73.8
\$1,000,000 and over.....	12	1,825	25.8	26,069,181	43.6	10,205,939	38.5								



## MANUFACTURES—IOWA.

15

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

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		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.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
MUSCATINE.....	146	2,522	100.0	\$10,753,750	100.0	\$5,050,080	100.0	SIoux CITY.....	251	6,740	100.0	\$146,383,134	100.0	\$21,131,710	100.0
Less than \$5,000.....	33	35	1.4	83,448	0.8	50,636	1.2	Less than \$5,000.....	37	20	0.3	101,358	0.1	64,143	0.3
\$5,000 to \$20,000.....	66	290	11.9	703,679	6.5	451,608	8.9	\$5,000 to \$20,000.....	82	180	2.8	937,690	0.6	517,535	2.6
\$20,000 to \$100,000.....	31	433	17.2	1,212,740	11.3	621,155	12.3	\$20,000 to \$100,000.....	74	706	10.5	3,476,563	2.4	1,702,068	8.1
\$100,000 to \$500,000.....	11	758	30.1	2,881,025	26.8	1,407,524	29.6	\$100,000 to \$500,000.....	36	942	14.0	7,254,258	5.0	2,552,474	12.1
\$500,000 and over.....	5	997	39.5	5,872,858	54.6	2,426,108	48.0	\$500,000 to \$1,000,000.....	10	1,425	21.1	10,205,554	7.0	4,386,731	20.7
								\$1,000,000 and over.....	6	3,407	51.4	124,327,711	84.9	11,898,159	56.3
OTTUMWA.....	94	2,601	100.0	45,029,524	100.0	8,528,413	100.0	WATERLOO.....	161	4,620	100.0	35,481,225	100.0	12,088,611	100.0
Less than \$5,000.....	10	10	0.4	51,972	0.1	28,029	0.3	Less than \$5,000.....	24	9	0.2	62,373	0.2	34,004	0.3
\$5,000 to \$20,000.....	24	70	2.7	251,109	0.6	140,906	1.7	\$5,000 to \$20,000.....	49	95	2.1	526,000	1.5	302,108	2.5
\$20,000 to \$100,000.....	31	314	12.1	1,499,678	3.3	633,960	7.4	\$20,000 to \$100,000.....	43	397	8.6	2,107,868	5.9	1,089,271	9.0
\$100,000 to \$500,000.....	16	732	28.1	3,793,394	8.4	1,942,552	22.8	\$100,000 to \$500,000.....	34	1,221	26.4	7,897,274	22.3	3,754,550	31.1
\$500,000 and over.....	4	1,475	56.7	39,433,371	87.6	5,782,906	67.8	\$500,000 to \$1,000,000.....	4	316	6.8	2,506,702	7.1	1,128,861	9.3
								\$1,000,000 and over.....	7	2,582	55.9	22,380,918	63.1	5,779,817	47.8

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.								
		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.				
All industries.....	1910	2,767	1,540	1,370	80,551	6,912	68,089	5,550	8.0	84.5	6.9	\$745,472,697	\$41,052,132	\$944,752,520	\$59,608,045	5.5	80.5	8.0				
	1914	2,805	1,434	1,375	83,113	7,277	48,385	7,451	11.5	78.7	11.8	310,740,074	24,576,748	235,915,163	50,255,063	7.9	73.9	10.2				
	1909	2,735	1,317	1,470	91,635	7,000	45,475	8,560	12.3	73.8	13.9	259,237,637	24,053,314	180,182,389	46,001,934	9.3	73.0	17.7				
Bread and other bakery products.	1910	390	46	102	2,583	782	1,474	327	30.3	57.1	12.7	20,244,067	6,757,700	10,456,092	3,030,206	33.4	51.6	15.0				
	1914	408	30	80	2,182	848	1,126	208	38.9	51.6	9.5	9,150,514	3,508,710	4,635,059	946,745	30.0	50.7	10.3				
Brick and tile, terra-cotta, and fire-clay products.	1910	24	61	28	2,452	84	2,056	312	3.4	83.8	12.7	8,127,157	218,074	6,783,312	1,125,771	2.7	83.5	13.9				
	1914	51	61	43	3,103	238	2,338	587	7.5	73.9	18.0	6,400,055	328,295	5,087,781	983,099	5.1	79.5	15.4				
Butter.....	1919	67	78	206	1,505	150	888	557	9.4	55.7	34.9	56,422,287	4,674,300	27,919,608	23,828,291	8.3	49.5	42.2				
	1914	79	102	203	1,274	215	885	474	16.9	45.9	37.2	27,028,255	2,864,142	11,893,993	12,280,120	10.6	44.0	45.4				
Canning and preserving, fruits and vegetables.	1919	6	51	5	1,271	34	1,183	54	2.7	93.1	4.2	8,014,770	86,635	7,626,772	301,363	1.1	95.2	3.8				
	1914	4	35	8	904	10	790	104	1.1	87.4	11.5	2,077,242	13,878	1,869,836	193,628	0.7	90.0	9.3				
Cars and general shop construction and repairs by steam-railroad companies.	1919	.....	51	.....	13,536	.....	13,536	.....	100.0	.....	.....	33,098,000	.....	33,098,600	.....	.....	100.0	.....				
	1914	.....	36	.....	8,024	.....	8,024	.....	100.0	.....	.....	11,433,988	.....	11,433,988	.....	.....	100.0	.....				
Confectionery and ice cream.	1919	90	41	51	1,739	168	1,347	224	9.7	77.5	12.9	11,534,028	1,461,069	8,535,335	1,537,024	12.7	74.0	13.3				
	1914	99	36	41	1,519	220	1,218	72	15.1	80.2	4.7	5,080,438	949,039	3,741,746	305,653	18.7	73.0	7.8				
Engines, steam, gas, and water.	1910	2	15	.....	2,739	.....	2,739	.....	100.0	.....	.....	17,610,778	.....	17,610,778	.....	.....	100.0	.....				
	1914	5	12	3	1,197	9	1,131	57	0.8	94.5	4.8	3,585,946	22,892	3,439,477	120,577	0.6	95.8	3.6				
Flour-mill and gristmill products.	1910	92	47	50	509	87	337	85	17.1	66.2	16.7	21,324,678	2,840,380	15,758,411	2,719,881	13.3	73.0	12.8				
	1914	117	40	70	790	124	531	135	15.7	67.2	17.1	14,336,576	1,771,062	10,595,040	1,969,208	12.4	73.0	13.7				
Food preparations, not elsewhere specified.	1910	12	11	7	2,441	18	2,373	50	0.7	97.2	2.0	54,994,131	130,952	53,756,307	1,106,872	0.2	97.7	2.0				
	1914	6	12	6	1,371	15	1,304	52	1.1	95.1	3.8	15,459,961	99,625	15,165,477	194,859	0.6	98.1	1.3				
Foundry and machine-shop products.*	1910	72	88	40	3,548	233	2,629	680	6.6	74.1	19.3	18,636,163	1,086,033	13,568,769	3,980,761	5.8	72.8	21.4				
	1914	77	97	51	3,065	219	2,222	624	7.1	72.5	20.4	9,309,145	699,411	6,582,306	2,024,428	7.5	70.7	21.8				
Lumber, planing-mill products, not including planing mills connected with sawmills.	1910	32	47	18	3,211	136	2,651	94	4.2	92.8	2.9	16,887,832	387,349	15,533,806	466,677	2.4	94.8	2.8				
	1914	36	41	15	2,970	70	2,754	140	2.6	92.7	4.7	10,713,495	296,646	9,970,002	476,847	2.5	93.1	4.5				
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	1910	11	24	12	689	82	520	87	11.9	75.5	12.6	11,440,501	1,305,420	8,519,401	1,624,680	11.4	74.4	14.2				
	1914	9	14	12	481	27	368	96	5.6	74.4	20.0	4,672,585	160,105	3,709,035	797,425	3.6	79.4	17.1				
Printing and publishing, newspapers and periodicals.	1910	504	107	163	3,352	942	1,655	455	28.1	58.3	13.6	20,430,956	3,530,968	14,890,904	2,009,084	17.3	72.9	9.8				
	1914	585	117	172	3,397	1,283	1,605	449	37.8	49.0	13.2	11,455,048	3,021,632	7,206,593	1,236,823	26.4	62.9	10.7				
Slaughtering and meat packing.	1919	2	15	4	7,134	.....	6,958	1,176	.....	97.5	2.5	226,361,698	.....	222,134,120	14,227,569	.....	98.1	1.9				
	1914	8	15	5	4,413	44	3,240	1,123	1.0	73.6	25.4	74,171,805	619,563	56,374,618	17,177,784	0.8	78.0	23.2				
Washing machines and clothes wringers.	1919	.....	14	.....	1,063	.....	1,063	.....	100.0	.....	.....	8,814,046	.....	8,814,046	.....	.....	100.0	.....				
	1914	2	12	.....	375	.....	1,375	.....	100.0	.....	.....	1,498,567	.....	1,498,567	.....	.....	100.0	.....				

\* Includes the group "Individuals."

\* Includes "iron and steel, tempering, welding, etc."



## MANUFACTURES—IOWA.

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cen tof total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.				
Total for cities.....	1919 1914	911 924	967 878	432 396	56,181 44,174	3,661 3,796	49,667 36,010	2,853 4,368	6.5 8.6	88.4 81.5	5.1 9.9	\$584,240,450 235,354,971	\$18,330,235 11,144,515	\$512,760,217 195,333,192	\$23,149,998 28,877,264	3.1 4.7	92.9 83.0	4.0 12.3				
BOONE.....	1919 1914	20 13	9 11	10 9	369 256	50 39	303 183	16 34	13.6 15.2	82.1 71.5	4.3 13.3	1,549,537 908,073	370,080 176,502	995,249 389,652	184,508 341,019	23.9 19.4	64.2 42.9	11.9 37.7				
BURLINGTON.....	1919 1914	37 52	48 49	12 17	2,274 2,246	105 142	2,112 1,973	57 131	4.6 6.3	92.9 87.8	2.5 5.8	12,090,058 6,865,655	554,335 502,346	11,135,987 6,106,194	399,736 257,115	4.6 7.3	92.1 88.9	3.3 3.7				
CEDAR RAPIDS.....	1919 1914	85 65	76 72	47 33	6,284 4,394	256 241	5,877 3,929	151 224	4.1 5.5	93.5 89.4	2.4 5.1	92,118,386 34,988,838	1,634,607 806,948	89,509,541 33,198,461	973,838 983,420	1.8 2.3	97.2 94.9	1.1 2.8				
CLINTON.....	1919 1914	48 50	51 47	20 8	3,452 2,679	95 148	3,300 2,495	54 36	2.8 5.5	95.6 93.1	1.6 1.3	30,321,143 10,427,432	662,994 372,502	29,328,224 9,968,836	329,025 86,094	2.2 3.6	96.7 95.6	1.1 0.2				
COUNCIL BLUFFS.....	1919 1914	43 48	47 36	21 17	1,891 1,330	110 116	1,701 1,143	80 77	5.8 8.7	90.0 85.6	4.2 5.8	10,610,664 4,279,165	697,501 515,768	9,578,213 3,618,724	334,950 144,673	6.6 12.1	90.3 84.0	3.2 3.4				
DAVENPORT.....	1919 1914	84 91	88 89	47 51	3,928 3,358	479 581	2,717 2,729	732 618	12.2 14.7	89.2 88.9	18.6 16.4	32,587,229 17,172,963	2,182,723 1,353,957	23,181,992 13,706,128	7,222,514 2,112,878	6.7 7.9	71.1 70.8	22.2 12.3				
DES MOINES.....	1919 1914	136 156	190 106	53 62	7,085 5,306	503 585	6,261 4,389	321 332	7.1 11.0	88.4 82.7	4.5 6.3	59,830,954 23,740,551	2,951,942 2,218,806	55,006,230 20,495,406	1,872,782 1,032,339	4.9 9.3	91.9 86.3	3.1 4.3				
DUBUQUE.....	1919 1914	54 54	56 62	21 23	6,147 5,171	240 348	5,786 4,421	121 402	3.9 6.7	94.1 85.5	2.0 7.8	34,277,085 14,714,143	1,284,620 830,586	31,833,355 12,623,108	1,159,110 1,260,391	3.7 5.6	92.9 85.8	3.4 8.6				
FORT DODGE.....	1919 1914	39 29	29 20	12 7	1,605 951	134 148	1,413 769	58 34	8.3 15.6	88.0 80.9	3.6 3.6	10,884,039 4,871,421	772,947 491,325	8,963,967 4,135,117	1,147,125 244,970	7.1 10.1	82.4 84.9	10.5 5.0				
FORT MADISON.....	1919	12	13	9	1,029	31	903	95	3.0	87.8	9.2	4,836,291	155,385	4,307,139	373,767	3.2	89.1	7.7				
IOWA CITY.....	1919 1914	24 35	8 10	17 16	322 350	136 149	107 132	79 69	42.2 42.6	33.2 37.7	24.5 19.7	1,767,313 1,333,106	460,413 416,091	531,266 507,419	775,634 409,596	26.1 31.2	30.1 38.1	43.9 30.7				
KEOKUK.....	1919 1914	29 37	33 32	9 16	1,598 1,333	77 115	1,377 1,081	144 137	4.8 8.6	86.2 81.1	9.0 10.3	17,554,816 8,250,274	330,926 294,606	14,985,792 6,441,413	2,238,098 1,514,255	1.9 3.6	85.4 78.1	12.7 18.4				
MARSHALLTOWN.....	1919 1914	15 22	31 28	16 11	1,338 1,060	42 62	1,198 938	98 60	3.1 5.8	89.5 88.6	7.3 5.7	8,642,468 5,149,858	207,570 197,162	7,514,826 4,688,397	920,072 264,299	2.4 3.8	87.0 91.0	10.6 5.1				
MASON CITY.....	1919 1914	19 17	28 34	12 9	2,367 2,054	43 41	2,265 1,977	59 36	1.8 2.0	95.7 96.3	2.5 1.8	29,512,534 11,742,456	255,299 104,264	28,815,241 11,474,287	411,994 163,905	0.9 0.9	97.7 97.7	1.4 1.4				
MUSCATINE.....	1919 1914	78 86	36 25	32 31	2,522 2,397	575 420	1,828 1,577	119 400	22.8 17.5	72.5 65.8	4.7 16.7	10,753,750 5,990,485	1,617,699 586,070	8,384,190 4,280,121	751,855 1,133,294	15.0 9.8	78.0 71.3	7.0 18.9				
OTTUMWA.....	1919 1914	40 39	38 31	16 18	2,601 2,447	273 213	2,097 815	231 1,419	10.5 8.7	80.6 83.3	8.9 58.0	45,029,524 21,299,029	1,368,253 632,240	42,492,335 3,113,403	1,108,936 17,554,256	3.0 3.0	94.4 80.0	2.6 82.4				
SIOUX CITY.....	1919 1914	90 80	111 102	50 38	6,749 4,753	339 318	6,160 4,235	250 200	5.0 6.7	91.3 89.1	3.7 4.2	146,393,131 49,479,444	1,871,704 1,162,266	142,971,098 47,360,951	1,550,332 956,227	1.3 2.3	97.7 95.7	1.1 1.9				
WATERLOO.....	1919 1914	58 50	75 64	28 30	4,620 3,483	170 130	4,262 3,224	188 129	3.7 3.7	92.3 92.6	4.1 3.7	35,481,225 14,126,178	950,937 483,076	33,195,466 13,225,517	1,334,822 417,585	2.7 3.4	93.6 93.6	3.8 3.0				

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

	Cen- sus 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 aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.
Number of places . . . . .	1919 1914 1909		18 17 17		11 9 9		6 8 8		1			
Population <sup>1</sup> . . . . .	1920 1915 1910	2,404,021 2,221,755 2,224,771	604,150 508,479 467,198	25.1 22.9 21.0	192,629 145,781 137,107	8.0 6.6 6.2	285,053 362,698 330,091	11.9 16.3 14.8	126,468	5.3	1,799,871 1,713,276 1,757,573	74.9 77.1 79.0
Number of establishments . . . . .	1919 1914 1909	5,683 5,614 5,528	2,310 2,198 1,986	40.6 39.2 35.9	850 704 644	15.0 12.5 11.6	1,081 1,494 1,342	19.0 26.6 24.3	379	6.7	3,373 3,416 3,542	59.4 60.8 64.1
A verage number of wage earners . . . . .	1919 1914 1909	80,551 63,113 61,635	56,181 44,174 43,674	69.7 70.0 70.9	19,477 13,094 14,613	24.2 20.7 23.7	29,619 31,080 29,061	36.8 49.2 47.2	7,085	8.8	24,370 18,939 17,961	30.3 30.0 29.1
Value of products . . . . .	1919 1914 1909	\$745,472,697 310,749,974 259,237,637	\$584,240,450 235,354,971 188,930,227	78.4 75.7 72.9	\$172,941,773 66,420,257 48,798,350	23.2 21.4 18.8	\$351,467,723 168,934,714 140,131,877	47.1 54.4 54.1	\$59,830,954	8.0	\$161,232,247 75,395,003 70,307,410	21.6 24.3 27.1
Value added by manufacture . . . . .	1919 1914 1909	225,231,890 105,298,635 88,530,589	163,434,845 76,722,260 62,942,599	72.6 72.9 71.1	53,202,686 22,196,720 17,216,586	23.6 21.1 19.4	83,691,767 54,525,540 45,720,018	37.2 51.8 51.6	26,540,392	11.8	61,797,045 28,576,375 25,587,990	27.4 27.1 28.9

<sup>1</sup> 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 HAVING 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919.

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.			Amount, 1919.	Per cent of total for the state.	Increase over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
DAVENPORT.					DES MOINES—Continued.				
Gloves and mittens, leather.....	\$768,104	50.5	( <sup>3</sup> )		Cement.....				
Foundry and machine-shop products <sup>2</sup> .....	3,906,306	21.1	\$1,906,017	95.3	Clothing, women's, suits, skirts, and cloaks.....				
Bread and other bakery products.....	2,709,338	13.4	1,135,851	72.2	Knit goods.....				
Washing machines and clothes wringers.....	1,471,755	16.7	850,551	140.4	Oil, linseed.....				
Tobacco, cigars.....	1,174,814	20.5	164,663	16.3	Perfumery and cosmetics.....				
Confectionery and ice cream.....	977,190	8.5	580,711	152.2	Poultry, killing and dressing, not done in slaughtering and meat-packing es- tablishments.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Butter.....	911,823	1.6	( <sup>3</sup> )		Rubber tires, tubes, and rubber goods, not elsewhere specified.....				
Printing and publishing, newspapers and periodicals.....	817,980	4.0	300,803	91.5	Saddlery and harness.....				
Automobile repairing.....	620,313	10.8	520,423	477.9	Slaughtering and meat packing.....				
Flour-mill and gristmill products.....					SIOUX CITY.				
Food preparations, not elsewhere speci- fied.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Slaughtering and meat packing.....	\$116,088,503	51.3	( <sup>3</sup> )	
Locomotives, not made by railroad com- panies.....					Bread and other bakery products.....	2,115,042	10.4	\$1,165,533	122.8
Slaughtering and meat packing.....					Flour-mill and gristmill products.....	2,650,918	9.6	( <sup>3</sup> )	
DES MOINES.					Printing and publishing, newspapers and periodicals.....	1,705,168	8.3	844,123	98.0
Printing and publishing, newspapers and periodicals.....	7,877,532	38.6	4,496,805	133.0	Cars and general shop construction and repairs by steam-railroad companies.....	1,530,887	4.6	( <sup>3</sup> )	
Bread and other bakery products.....	2,943,716	14.5	1,873,881	175.2	Coffee, roasting and grinding.....	1,410,644	27.5	913,401	183.7
Butter.....	2,252,730	4.0	( <sup>3</sup> )		Druggists' preparations.....	1,317,016	42.9	905,550	220.1
Confectionery and ice cream.....	1,510,456	13.1	959,624	173.2	Confectionery and ice cream.....	1,100,391	9.5	541,950	97.0
Flour-mill and gristmill products.....	1,487,513	7.0	908,820	157.0	Copper, tin, and sheet-iron work.....	837,451	16.5	631,628	306.9
Patent and proprietary medicines.....	1,479,227	23.4	637,314	75.7	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....				
Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	1,462,703	8.9	-161,150	-0.9	Automobiles.....	805,121	4.0	342,730	74.1
Printing and publishing, book and job.....	1,438,131	27.6	720,807	100.5	Butter.....				
Stoves and hot-air furnaces.....	1,266,884	40.9	827,763	188.5	Clothing, men's.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Brick and tile, terra-cotta, and fire-clay products.....	1,002,393	12.3	178,988	21.7	Rubber tires, tubes, and rubber goods, not elsewhere specified.....				
Foundry and machine-shop products.....	979,280	5.3	251,780	34.8					
Fur goods.....	819,670	45.5	730,185	735.6					
Copper, tin, and sheet-iron work.....	662,530	13.1	355,831	116.0					

<sup>1</sup> A minus sign (-) denotes decrease.<sup>2</sup> Includes "iron and steel, tempering, welding, etc." and "textile machinery and parts."<sup>3</sup> 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.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	16,747	10,514	6,585	242,940	190,049	155,384	100.0	100.0	100.0
Owned.....	2,142	3,040	3,574	130,334	139,746	136,465	53.6	73.5	87.8
Steam.....	1,230	1,636	2,054	119,442	125,340	122,029	49.2	65.9	78.5
Engines.....	1,176	( <sup>2</sup> )	( <sup>2</sup> )	101,494	( <sup>2</sup> )	( <sup>2</sup> )	41.8		
Turbines.....	63	( <sup>2</sup> )	( <sup>2</sup> )	17,948	( <sup>2</sup> )	( <sup>2</sup> )	7.4		
Internal-combustion engines.....	809	1,254	1,336	7,630	8,808	8,025	2.9	4.7	5.2
Water.....	94	150	184	3,802	5,538	6,411	1.6	2.9	4.2
Water wheels and turbines.....	66	130	161	3,245	5,487	6,320	1.3	2.9	4.1
Water motors.....	28	20	23	617	51	85	0.3	( <sup>3</sup> )	0.1
Rented.....	14,605	7,474	3,011	112,612	50,303	18,919	46.4	26.5	12.2
Electric.....	14,605	7,474	3,011	112,486	50,054	18,463	46.3	26.3	11.9
Other.....				126	249	456	0.1	0.1	0.3
Electric.....	18,500	10,144	4,459	166,285	101,827	40,736	100.0	100.0	100.0
Rented.....	14,605	7,474	3,011	112,486	50,054	18,463	67.6	49.2	45.3
Generated by establishments reporting.....	3,895	2,670	1,448	53,799	51,773	22,273	32.4	50.8	54.7

<sup>1</sup> Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.<sup>2</sup> Not reported separately.<sup>3</sup> 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, 2,000 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....1919..	15,400	2,154,407	134,841	573,958	26,441	181,957
.....1914..	10,279	2,361,179	83,082	280,261	(1)	120,609
Per cent of increase <sup>2</sup> .....	49.8	-8.8	62.3	114.2	(1)	50.8
Automobile repairing.....	228	8,287	49	43	1,570	17,184
Bread and other bakery products.....	3,074	14,749	13,186	3,038	1,402	23,811
Brick and tile, terra-cotta, and fire-clay products.....		336,750	180	9,100	3,429	
Butter.....	1,767	77,866	505	1,270	965	
Buttons.....		10,978	150	52	144	
Canning and preserving, fruits and vegetables.....	219	14,989		3	31	3,600
Carriages and wagons, including repairs.....	50	5,639	22	204	94	
Cars and general shop construction and repairs by steam-railroad companies.....	343	276,947	303	11,506	277	1,422
Cars, steam-railroad, not including operations of railroad companies.....		21,471	135	68,599	903	
Cement.....		454,502			100	
Confectionery and ice cream.....	387	17,148	246	4,676	160	11,510
Engines, steam, gas, and water.....		15,098	7,630	12,396	3,861	2,960
Flour-mill and gristmill products.....	515	28,024	7	3,063	836	12
Food preparations, not elsewhere specified.....	672	27,147	839	41	13	18,256
Foundry and machine-shop products.....	163	20,737	11,371	11,891	1,791	2,391
Furniture.....		7,724			52	
Gas, illuminating and heating.....	3,403	82,823	81,222	398,128	5,684	
Glucose and starch.....	474	160,018	586	17,518		
Ice, manufactured.....	80	66,625		2,765		
Lumber, planing-mill products, not including planing mills connected with saw-mills.....	11	15,864	54		35	
Mineral and soda waters.....	237	7,194	6	43	41	375
Paper and wood pulp.....		17,625		500		
Paving materials.....	25	8,916				
Printing and publishing, newspapers and periodicals.....	687	12,692	138	240	1,103	43,765
Roofing materials.....		28,100				
Rubber tires, tubes, and rubber goods, not elsewhere specified.....		10,321		69	350	680
Slaughtering and meat packing.....	500	219,072	100		317	28,666
Sugar, beet.....		11,623	523			
Wall plaster and composition flooring.....		27,404	758		72	
Washing machines and clothes wringers.....	124	5,831	501		400	36
All other industries.....	2,441	130,243	16,330	28,811	2,715	27,289
Total for cities.....	5,771	1,495,250	98,493	265,071	11,010	162,052
BOONE.....	12	3,045	1,336	34	43	779
BURLINGTON.....	179	21,788	5,721	11,269	122	4,563
CEDAR RAPIDS.....	223	106,291	9,885	967	330	27,117
CLINTON.....	513	157,215	1,138	9,235	523	4,532
COUNCIL BLUFFS.....	381	34,477	4,178	15,510	132	11,061
DAVENPORT.....	268	56,890	6,936	27,955	1,720	20,298
DES MOINES.....	1,074	245,678	17,337	61,416	1,117	44,226
DUBUQUE.....	722	44,765	2,675	4,348	218	5,466
FORT DODGE.....	18	31,294	3,327	13,138	3,620	687
FORT MADISON.....	47	9,168	1,040	5,558	1	100
IOWA CITY.....	47	24,051	977	2,219	11	426
KEOKUK.....	747	54,805	8,610	12,143	93	358
MARSHALLTOWN.....	160	27,982	3,783	809	197	6,028
MASON CITY.....	19	372,839	2,018	6,930	60	1,425
MUSCATINE.....	31	22,057	2,129	1,415	284	1,230
OTTUMWA.....	36	74,925	3,466	7,405	103	18,129
SIOUX CITY.....	1,019	152,769	10,381	39,260	12,563	
WATERLOO.....	275	54,320	13,556	45,340	2,096	3,069

<sup>1</sup> Included in figures for fuel oils.<sup>2</sup> 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 five of these industries in Iowa are here presented.

**Slaughtering and meat packing** (Table 19).—This table presents for the census years 1919, 1914, and 1909 the kind, number, and cost of animals slaughtered, and the cost of all other materials, which includes that for dressed meat purchased for curing, fats, cottonseed oil, poultry, refrigeration, seasoning, containers, curing materials, fuel, rent of power, mill supplies, and freight. It also shows the quantity and value of the various products manufactured, except that the value of canned beef and pork, meat puddings, scrapple, etc., lard, oleo, and other oils, oleo stearin,

glue, poultry and stock feed, and skins, other than cattle, calf, and sheep are included in "All other products."

During the census period 1914-1919 the cost of materials increased \$136,647,178, or 201.6 per cent, and the value of products \$152,189,833, or 205.2 per cent. The increase in production during this five-year period is better indicated by the increase in the number of animals slaughtered in 1919 as compared with 1914. Beeves increased 217,696, or 99.2 per cent; calves 30,104, or 198.4 per cent; and hogs 908,272, or 37.9 per cent. The only decrease in the number of animals slaughtered was in sheep and lambs, 42,987, or 14 per cent.

Iowa has ranked sixth in the industry in value of products among the states since 1904.



TABLE 19.—SLAUGHTERING AND MEAT PACKING.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$204,420,686	\$67,773,508	\$53,034,481
Animals slaughtered, cost.....	\$187,034,324	\$63,193,329	\$50,182,075
Beeves—			
Number.....	437,055	219,359	252,821
Cost.....	\$41,943,020	\$15,759,309	\$11,256,445
Calves—			
Number.....	45,275	15,171	20,437
Cost.....	\$902,724	\$213,894	\$202,852
Sheep and lambs—			
Number.....	264,432	307,419	49,577
Cost.....	\$2,782,728	\$1,847,912	\$223,759
Hogs—			
Number.....	3,302,333	2,394,061	2,487,251
Cost.....	\$141,345,852	\$45,072,154	\$38,409,019
All other materials, cost.....	\$17,386,362	\$4,580,179	\$2,852,406
<b>PRODUCTS.</b>			
Total value.....	\$226,361,698	\$74,171,865	\$58,913,482
Fresh meat, value.....	\$70,511,415	\$28,020,755	\$19,212,209
Beef—			
Pounds.....	189,351,603	118,567,051	123,780,302
Value.....	\$33,190,688	\$13,070,747	\$8,854,488
Veal—			
Pounds.....	4,821,377	1,715,791	2,420,149
Value.....	\$739,047	\$206,203	\$220,921
Mutton and lamb—			
Pounds.....	9,820,929	12,530,457	1,848,011
Value.....	\$2,141,308	\$1,270,068	\$170,834
Pork—			
Pounds.....	116,334,618	103,461,549	100,113,209
Value.....	\$29,812,210	\$12,284,015	\$9,750,724
Edible offal and all other fresh meat—			
Pounds.....	36,300,061	8,885,752	3,820,807
Value.....	\$4,628,162	\$592,037	\$209,302
Cured meat, value.....	\$97,897,036	\$29,343,351	\$24,852,404
Beef, pickled and other cured—			
Pounds.....	5,001,801	(1)	(1)
Value.....	\$1,075,805	(1)	(1)
Pork, pickled and other cured—			
Pounds.....	335,237,381	233,138,198	219,106,133
Value.....	\$96,821,231	\$29,343,351	\$24,852,404
Sausage—			
Pounds.....	21,252,903	17,820,025	15,541,624
Value.....	\$4,347,169	\$2,111,800	\$1,300,758
Lard—			
Pounds.....	103,502,429	59,038,166	71,084,771
Value.....	\$31,003,935	\$6,491,245	\$8,059,149
Lard compounds and substitutes—			
Pounds.....	5,032,256	(1)	(2)
Value.....	\$1,227,371	(1)	(2)
Tallow and oleo stock—			
Pounds.....	9,912,001	30,070,882	5,403,034
Value.....	\$1,857,524	\$2,150,363	\$422,490
Oleomargarine—			
Pounds.....	474,824	(1)	.....
Value.....	\$138,853	(1)	.....
Soap stock and grease—			
Pounds.....	14,134,506	8,890,127	(2)
Value.....	\$1,752,024	\$514,707	(2)
Casings—			
Pounds.....	4,003,007	2,091,832	(2)
Value.....	\$641,001	\$259,475	(2)
Fertilizer and fertilizer materials—			
Tons.....	9,590	7,970	12,819
Value.....	\$647,383	\$235,930	\$204,072
Hides and pelts—			
Cattle—			
Number.....	437,055	219,359	265,063
Pounds.....	24,107,779	12,259,831	14,727,015
Value.....	\$7,141,823	\$2,138,122	\$1,878,592
Calf—			
Number.....	33,028	8,588	.....
Pounds.....	550,046	130,548	.....
Value.....	\$240,513	\$21,677	.....
Sheep—			
Number.....	263,719	307,648	49,534
Value.....	\$785,073	\$351,967	\$61,386
Hair, hog and cattle—			
Pounds.....	2,369,606	(2)	(2)
Value.....	\$157,071	(2)	(2)
All other products, value.....	\$8,003,307	\$2,529,413	\$2,832,362

<sup>1</sup> Included in "All other products," to avoid disclosure of individual operations.  
<sup>2</sup> Not reported separately.  
<sup>3</sup> Includes a large amount of grease.

Butter, cheese, and condensed milk (Table 20).—This table presents the quantities and values of the principal products of the industry for 1919, 1914, and 1909. At each of the three censuses butter was the product of chief value, forming 87.3 per cent of the

total value of all products for the industry in 1919, as compared with 90.6 per cent in 1914. During this five-year period the value of butter increased 101.7 per cent, while the quantity decreased 2.5 per cent.

TABLE 20.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$57,800,148	\$27,605,908	\$25,849,866
Butter:			
Pounds.....	90,079,758	92,405,806	88,582,187
Value.....	\$50,438,028	\$25,011,327	\$24,440,715
Packed solid—			
Pounds.....	62,856,122	71,194,290	75,581,191
Value.....	\$34,729,324	\$19,025,043	\$20,800,762
Prints or rolls—			
Pounds.....	27,223,636	21,211,516	13,000,996
Value.....	\$15,709,304	\$5,986,284	\$3,639,953
Cream sold:			
Pounds.....	4,811,541	2,933,142	1,169,943
Value.....	\$611,338	\$299,071	\$134,156
Cheese:			
Pounds.....	1,015,790	855,198	999,559
Value.....	\$203,085	\$125,171	\$148,876
All other butter, cheese, and condensed-milk factory products, value.....	\$3,127,892	\$954,904	\$866,565
All other products, value.....	\$3,328,605	\$1,215,405	\$259,554

Flour-mill and gristmill products (Table 21).—This table shows the chief products of the industry in Iowa at the censuses of 1919, 1914, and 1909. Of the total value of products for the industry in the state, wheat flour formed 64.4 per cent in 1919 and 49.9 per cent in 1914. Bran and middlings and feed and offal combined formed 28 per cent and 27.4 per cent, respectively, for the two years. Illustrative of the high prices of commodities in 1919 as compared with 1914, the value of wheat flour increased 92 per cent, while the quantity decreased 15.9 per cent during the five-year period.

TABLE 21.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$21,324,678	\$14,336,576	\$12,870,603
Wheat flour:			
Barrels.....	1,251,770	1,488,811	1,523,204
Value.....	\$13,728,744	\$7,149,334	\$7,958,975
Rye flour:			
Barrels.....	11,166	13,133	20,906
Value.....	\$97,436	\$63,451	\$35,019
Corn meal and corn flour:			
Barrels.....	145,364	318,590	184,301
Value.....	\$1,106,086	\$1,080,155	\$582,328
Buckwheat flour:			
Pounds.....	1,821,294	1,123,875	2,870,980
Value.....	\$118,308	\$41,424	\$97,510
Barley meal:			
Pounds.....	61,502	.....	.....
Value.....	\$1,584	.....	.....
Bran and middlings:			
Tons.....	54,516	63,857	.....
Value.....	\$2,504,998	\$1,399,503	144,950
Feed and offal:			
Tons.....	62,006	90,210	.....
Value.....	\$3,456,387	\$2,562,961	\$3,535,581
Hominy and grits:			
Pounds.....	3,246,619	16,693,110	16,416,130
Value.....	\$101,908	\$188,080	\$232,636
Oatmeal:			
Pounds.....	.....	4,510,962	.....
Value.....	.....	\$125,054	.....
Breakfast foods:			
Pounds.....	20,242	45,870,016	.....
Value.....	\$1,293	\$1,653,873	.....
All other cereal products, value.....	\$206,944	\$24,400	\$90,296
All other products, value.....	.....	\$99,279	\$217,958



**Printing and publishing** (Table 22).—This table shows the number and aggregate circulation per issue of each of the various classes of newspaper and periodical publications reported for the census years 1919, 1914, and 1909.

Of the 58 dailies reported for 1919, 45, with a circulation of 532,255, were issued in the afternoon. This is an increase over 1914 of 98,172, or 22.6 per cent. The circulation of the morning newspapers during the same five-year period increased 32,167, or 21 per cent. The decrease in the circulation of all publications was due to the discontinuance or reduction in circulation, as reported, of several weeklies of large circulation devoted to agriculture and religion. A considerable reduction in circulation of news weeklies was due to the discontinuance of a number of German papers.

Thirty-six publications, with a circulation of 201,238, were printed in foreign languages in 1919. Of these, 21 were weeklies, 11 of them being printed in German, 3 in Danish, 3 in Dutch, 2 in Bohemian, and 1 each in Norwegian and Swedish. There were 5 monthly publications, 1 each printed in Dutch, German, Norse, Norwegian and Danish, and Swedish; 2 triweeklies, both in German; 1 semiweekly in Norwegian; 1 trimonthly and 1 quarterly in German; and 1 semimonthly in Danish. Of the 1914 foreign-language publications, 78,375 of the 236,235 circulation was in the German tongue, as compared with 60,665 in 1919.

TABLE 22.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	845	928	1,004	4,910,198	4,856,373	3,806,253
Daily.....	58	68	68	717,607	587,208	450,919
Sunday.....	14	14	14	266,152	200,666	168,678
Semiweekly.....	28	34	48	96,837	110,113	136,726
Triweekly.....	8	6	4	25,654	24,150	15,900
Weekly.....	657	738	784	1,190,932	1,459,849	1,419,700
Semimonthly.....	11	11	8	144,400	193,830	84,960
Monthly.....	58	53	66	2,334,376	2,256,097	1,490,861
Quarterly.....	11	34	12	134,650	24,600	37,500

<sup>1</sup> Includes 1 trimonthly.

<sup>2</sup> Includes 2 bimonthlies.

<sup>3</sup> Includes 1 bimonthly.

<sup>4</sup> Includes 3 bimonthlies and 5 classed as "all other."

**Agricultural implements** (Table 23).—This table shows the value of the principal classes of agricultural implements manufactured in Iowa in 1919, 1914, and 1909. While the total value of products for the industry in the state shows an increase from census to census, consideration should be given to the increased value of commodities in 1919, in connection with the increase from 1914. In 1919, as in previous censuses, the largest single item of value was, "All other products, including parts," forming 57.7 per cent of the total for the industry in 1919, and 55.1 per cent in 1914. Although this item includes the value of

engines, wagons, etc., it is made up largely of agricultural implements the value of which could not be shown separately without the possibility of disclosing the operations of individual establishments.

TABLE 23.—AGRICULTURAL IMPLEMENTS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value.....	\$5,959,129	\$5,216,245	\$4,757,089
Plows and cultivators.....	248,340	922,599	438,837
Harvesting implements.....	1,610,684	936,505	1,157,701
Seed separators.....	656,133	440,900	55,918
All other products, including parts.....	3,436,994	2,875,266	2,785,870
Amount received for repair work.....	6,978	34,885	318,763

**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 Iowa for 1919 and 1914.

TABLE 24.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919
	1919	1914	
Number of establishments.....	129	176	-26.7
Persons engaged.....	2,466	2,883	-14.5
Proprietors and firm members.....	137	186	-26.3
Salaried employees.....	255	179	42.5
Wage earners (average number).....	2,074	2,518	-17.6
Primary horsepower.....	3,108	3,873	-18.2
Capital.....	\$2,569,074	\$1,784,871	43.9
Salaries and wages.....	1,730,459	1,331,153	30.0
Salaries.....	357,951	180,034	98.2
Wages.....	1,372,508	1,150,519	19.3
Paid for contract work.....	12,128	3,192	279.9
Rent and taxes.....	289,925	104,131	178.4
Cost of materials.....	901,410	587,027	53.1
Amount received for work done.....	3,904,658	2,882,005	35.5

<sup>1</sup>A minus sign (-) denotes decrease.

**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.....	70
Persons engaged.....	584
Proprietors and firm members.....	76
Salaried employees.....	103
Wage earners (average number).....	405
Primary horsepower.....	523
Capital.....	\$679,719
Salaries and wages.....	550,061
Salaries.....	127,340
Wages.....	422,751
Paid for contract work.....	5,593
Rent and taxes.....	65,263
Cost of materials.....	253,684
Amount received for work done.....	1,333,047



Custom sawmills and custom gristmills (Tables 26 and 27).—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.

TABLE 26.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	53	117	-54.7
Persons engaged.....	91	284	-68.0
Proprietors and firm members.....	61	148	-56.8
Salaried employees.....	27	133	-70.7
Wage earners (average number).....	1,465	2,232	-34.4
Primary horsepower.....	\$91,313	\$150,795	-39.4
Capital.....	19,120	41,349	-53.8
Salaries and wages.....	1,062	4,087	-52.5
Salaries.....	19,120	40,287	-52.5
Wages.....	493	( <sup>2</sup> )	113.8
Rent and taxes.....	6,412	2,000	-52.9
Cost of materials.....	58,460	124,124	-52.9
Amount received for work done.....			

<sup>1</sup> A minus sign (-) denotes decrease.

<sup>2</sup> Figures not available.

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 27.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	129	174	-25.9
Persons engaged.....	208	260	-20.8
Proprietors and firm members.....	155	210	-28.2
Salaried employees.....	1	2	
Wage earners (average number).....	50	42	
Primary horsepower.....	4,042	6,043	-33.1
Capital.....	\$338,527	\$546,774	-38.8
Salaries and wages.....	42,103	18,214	131.2
Salaries.....	600	580	3.4
Wages.....	41,503	17,634	135.4
Rent and taxes.....	6,437	( <sup>2</sup> )	
Cost of materials.....	2,574,678	1,094,869	135.2
Value of products.....	2,971,103	1,351,201	119.9

<sup>1</sup> A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.

<sup>2</sup> Figures not available.

<sup>3</sup> Includes estimate of all grain ground.

## GENERAL TABLES.

Table 28 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 Des Moines and Sioux City, and for Davenport and each of the cities in the state having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

TABLE 28.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.	INDUSTRY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1910	5,083	80,551	242,946	\$90,117	\$520,241	\$745,473	Bread and other bakery products.	1919	538	2,583	3,376	\$2,973	\$12,511	\$20,244
	1914	5,614	83,113	190,049	39,860	205,451	310,750		1914	518	2,182	2,041	1,269	5,166	9,151
	1909	5,528	61,635	155,384	32,542	170,707	259,238		1909	495	1,647	1,172	846	4,147	6,818
Agricultural implements..	1910	26	906	2,306	1,082	2,822	5,959	Brick and tile, terra-cotta, and fire-clay products.	1919	113	2,452	18,335	2,994	2,639	8,127
	1914	34	1,164	2,459	794	2,052	5,216		1914	158	3,163	20,081	2,180	2,021	6,400
	1909	42	1,318	2,554	683	2,171	4,767		1909	245	3,444	21,929	1,846	1,384	4,947
Artificial stone products..	1919	255	672	2,563	734	1,288	2,962	Brooms, from broom corn..	1919	44	198	263	181	545	1,052
	1914	384	809	2,404	502	951	2,082		1914	40	196	248	111	260	572
	1909	308	730	1,730	397	632	1,560		1909	51	240	127	111	331	649
Automobile bodies and parts.	1919	37	460	552	469	816	1,713	Butter, cheese, and condensed milk.	1919	434	1,663	10,135	1,756	50,481	57,800
	1914	10	29	34	20	22	68		1914	490	1,333	9,048	1,013	24,075	27,606
	1909	4	84	(1)	42	68	132		1909	512	1,231	8,911	855	22,842	25,850
Awnings, tents, and sails..	1919	18	77	91	62	214	417	Buttons.....	1919	77	2,091	2,340	1,519	2,477	5,615
	1914	19	92	69	46	189	330		1914	81	2,406	3,086	1,000	1,473	3,255
	1909	16	77	61	35	137	245		1909	70	3,172	2,809	1,412	1,414	4,035
Boots and shoes.....	1919	6	653	779	440	2,270	3,047	Canning and preserving <sup>2</sup> .	1919	76	1,582	6,940	1,099	6,735	10,223
	1914	9	389	427	244	501	845		1914	64	1,209	4,400	438	2,122	3,920
	1909	10	716	345	318	1,059	1,633		1909	71	1,247	2,989	299	1,568	2,549
Boxes, cigar.....	1919	7	60	57	44	67	179	Carpets, rag.....	1919	22	64	142	53	32	144
	1914	7	76	46	31	49	115		1914	24	79	103	41	23	104
	1909	7	79	59	26	54	112		1909	32	158	220	78	44	206
Boxes, paper and other, not elsewhere specified.	1919	10	238	178	142	978	1,438	Carriages and wagons and materials.	1919	68	493	1,689	432	1,008	2,155
	1914	8	125	98	43	81	176		1914	93	994	2,120	636	1,903	3,437
	1909	6	128	64	33	57	128		1909	119	1,441	2,387	828	2,748	4,786

<sup>1</sup> Figures not available.

<sup>2</sup> Includes "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces."



## MANUFACTURES—IOWA.

TABLE 28.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.—Continued

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Cars and general shop con- struction and repairs by electric-railroad com- panies.	1919 1914 1909	15 12 13	323 298 183	538 490 1,273	\$402 218 112	\$312 153 96	\$770 400 231	Leather goods <sup>3</sup> .....	1919 1914 1909	120 157 67	411 557 600	412 422 380	\$511 393 353	\$2,604 1,905 1,812	\$4,225 3,054 2,855
Cars and general shop con- struction and repairs by steam - railroad com- panies.	1919 1914 1909	51 36 33	13,536 8,024 6,969	12,063 9,337 5,937	18,906 5,988 4,535	12,219 4,734 5,149	33,099 11,434 10,269	Lumber and timber prod- ucts. <sup>4</sup>	1919 1914 1909	144 141 229	3,549 3,802 4,058	11,686 10,147 16,564	3,149 2,100 2,356	9,593 6,713 7,141	17,803 11,427 12,059
Cleansing and polishing preparations.	1919 1914 1909	8 6 3	21 17 5	105 71 (1)	18 11 3	126 63 18	276 138 41	Marble and stone work...	1919 1914 1909	58 88 87	244 337 315	970 913 514	330 268 243	1,030 719 616	2,169 1,572 1,338
Clothing, men's, including shirts.	1919 1914 1909	22 22 28	778 954 1,480	258 369 479	432 322 425	2,599 1,065 1,412	3,858 1,670 2,496	Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	15 16 17	239 233 242	670 353 311	272 144 128	1,123 492 455	1,962 828 720
Clothing, women's.....	1919 1914 1909	10 14 19	503 563 876	405 97 123	317 220 304	1,145 751 885	2,069 1,220 1,535	Millinery and lace goods, not elsewhere specified.	1919 1914	4 5	47 33	8 4	29 10	118 11	264 38
Coffee, roasting and grind- ing.	1919 1914 1909	16 14 11	173 282 249	586 967 346	145 147 114	4,355 2,966 2,098	5,129 3,804 2,661	Mineral and soda waters..	1919 1914 1909	108 117 99	207 278 232	416 424 364	190 168 125	826 506 294	1,633 1,111 794
Coffins, burial cases, and undertakers' goods.	1919 1914 1909	8 6 8	318 234 242	511 414 494	321 145 132	872 386 388	1,640 720 753	Optical goods.....	1919 1914 1909	9 9 7	71 46 17	31 26 14	56 25 8	110 64 26	350 164 69
Confectionery and ice cream.	1919 1914	182 176	1,739 1,519	4,183 2,850	1,285 721	6,871 3,100	11,535 5,086	Paints.....	1919 1914 1909	4 4 4	10 25 18	90 226 170	16 14 12	160 94 85	268 156 150
Cooperage.....	1919 1914 1909	14 20 34	111 155 249	263 268 467	115 79 121	499 304 560	806 521 876	Paper and wood pulp....	1919 1914 1909	4 3 4	136 87 205	1,932 1,812 1,435	141 54 81	293 183 281	612 280 437
Copper, tin, and sheet- iron work.	1919 1914 1909	120 86 71	803 558 585	570 503 1,925	914 386 334	2,634 1,439 1,505	5,062 2,489 2,414	Patent medicines and compounds and drug- gists' preparations. <sup>5</sup>	1919 1914 1909	114 94 100	746 418 358	1,129 642 503	658 229 133	4,655 1,667 1,065	10,658 4,828 3,401
Dairymen's, poultry- men's, and apiarists' supplies.	1919 1914 1909	12 7 17	434 394 730	1,249 1,012 736	514 233 395	1,869 1,305 966	3,177 1,923 1,964	Paving materials.....	1919 1914	21 19	219 326	4,267 2,990	225 178	148 93	467 35
Electrical machinery, ap- paratus, and supplies.	1919 1914 1909	7 5 9	82 94 64	90 88 84	79 58 31	140 87 74	280 235 200	Poultry, killing and dress- ing, not done in slaugh- tering and meat-pack- ing establishments.	1919 1914	47 35	689 481	1,428 1,081	722 242	9,766 4,022	11,455 4,673
Flavoring extracts.....	1919 1914 1909	8 8 6	11 17 21	11 32 (1)	10 10 8	120 60 53	205 114 110	Printing and publishing <sup>6</sup> .	1919 1914 1909	997 1,076 1,110	4,808 4,948 4,853	7,023 5,545 5,527	5,134 3,336 2,591	7,851 4,130 3,287	26,806 15,930 12,129
Flour-mill and gristmill products.	1919 1914 1909	189 227 277	509 790 647	13,729 16,388 18,832	578 486 382	18,613 11,758 10,934	21,325 14,337 12,871	Signs and advertising novelties.	1919 1914 1909	17 17 5	350 57 26	232 26 2	331 53 19	639 94 13	2,367 236 46
Food preparations, not elsewhere specified.	1919 1914 1909	30 24 24	2,441 1,371 833	16,021 5,238 3,124	2,368 806 406	45,262 11,393 7,169	54,994 15,460 9,795	Slaughtering and meat packing. <sup>7</sup>	1919 1914 1909	30 33 33	7,197 4,430 4,144	15,619 10,247 8,309	8,811 2,740 2,190	204,789 67,871 53,127	228,865 74,289 59,045
Foundry and machine- shop products. <sup>2</sup>	1919 1914 1909	849 364 274	9,022 5,571 5,108	21,984 13,022 8,402	10,968 3,887 3,085	22,481 7,307 6,372	48,994 16,606 14,064	Soap.....	1919 1914 1909	7 8 9	82 115 150	140 290 270	68 71 58	993 976 910	1,427 1,418 1,382
Fur goods.....	1919 1914 1909	20 17 11	268 124 73	158 176 91	270 82 38	805 186 105	1,846 437 287	Stoves and hot-air fur- naces.	1919 1914 1909	10 17 14	412 393 352	636 618 484	547 289 222	990 409 362	3,096 1,213 890
Furniture and refrigera- tors.	1919 1914 1909	39 40 44	1,018 1,233 1,074	1,999 3,802 2,453	1,073 780 606	1,938 1,504 1,336	4,024 2,879 2,650	Tobacco, cigars.....	1919 1914 1909	211 298 366	1,305 1,662 1,897	56 31 (1)	1,019 854 1,266	1,822 1,270 1,266	3,977 3,105 3,170
Gas, illuminating and heating.	1919 1914 1909	68 113 117	727 768 806	5,316 4,349 2,043	846 497 380	2,641 1,638 1,111	5,738 4,006 2,893	Tools, not elsewhere speci- fied.	1919 1914 1909	17 14 16	343 202 160	1,100 913 452	341 148 96	648 440 243	1,427 821 489
Gloves and mittens, leather.	1919 1914 1909	6 8 10	290 195 234	81 94 236	189 85 94	753 359 373	1,520 626 693	Wall plaster and compo- sition flooring.	1919 1914 1909	7 7 6	884 599 539	3,335 3,648 1,480	890 492 181	840 456 193	2,626 1,722 739
Grease and tallow, not including lubricating greases.	1919 1914 1909	29 6 9	69 33 26	287 241 (1)	94 22 19	385 53 129	669 99 214	Washing machines and clothes wringers.	1919 1914 1909	14 14 11	1,063 375 341	1,418 685 651	1,213 237 178	4,629 703 541	8,815 1,499 1,117
Ice, manufactured.....	1919 1914 1909	46 34 18	504 192 151	5,850 3,469 2,045	539 150 101	532 202 64	1,841 579 290	Wirework, not elsewhere specified.	1919 1914 1909	10 9 13	114 160 113	252 363 (1)	96 81 52	538 201 288	800 397 488
Jewelry.....	1919 1914 1909	18 16 16	66 54 95	46 52 127	65 39 53	89 28 49	274 102 155	All other industries.....	1919 1914 1909	217 233 291	9,478 6,273 6,003	53,930 3,996 23,380	10,922 3,996 3,188	53,933 20,673 19,200	85,033 33,402 31,426

1 Figures not available.

2 Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "iron and steel, tempering, welding, etc."; "machine tools"; "plumbers' supplies"; "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" in all years and "hardware, saddlery" in 1914 and 1909.

3 Includes "saddlery and harness"; and "trunks and valises."

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

5 Includes "perfumery and cosmetics."

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

7 Includes "sausage, not made in slaughtering and meat-packing establishments."



# MANUFACTURES—IOWA.

28

TABLE 28.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of ma- terials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of ma- terials.	Value of prod- ucts.
					Expressed in thousands.								Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
DAVENPORT <sup>1</sup> .....	1919	219	3,928	11,462	\$4,308	\$21,562	\$32,587	SIoux CITY.....	1919	251	8,749	14,572	\$88,947	\$125,261	\$146,393
All industries.	1914	231	3,958	9,121	2,402	10,116	17,173	All industries.	1914	220	4,753	11,646	3,198	40,819	49,479
	1909	232	4,231	9,166	2,178	11,571	18,802		1909	136	3,750	8,807	2,131	30,888	37,425
DES MOINES.....	1919	379	7,085	17,341	7,559	33,291	59,831	Automobile repairing.....	1919	33	115	176	173	213	565
All industries.	1914	384	5,306	13,978	3,560	12,275	23,747		1914	3	36	10	20	20	78
	1909	387	5,383	10,106	2,945	13,565	23,585	Bread and other bakery products.	1919	24	323	528	293	1,277	2,115
Bread and other bakery products.	1914	35	238	209	146	591	1,070		1914	19	279	201	153	600	950
	1909	32	201	131	106	472	793	Brooms, from broom corn.	1919	3	38	18	33	81	136
Brick and tile, terra-cotta, and fire-clay products.	1919	8	295	1,529	383	317	1,062		1914	5	20	16	13	21	45
	1914	10	445	2,000	312	313	823	Coffee, roasting and grind- ing.	1919	4	39	91	34	1,285	1,411
	1909	11	323	2,454	198	189	513		1914	4	19	88	10	387	497
Confectionery and ice cream.	1919	7	168	513	176	938	1,510	Confectionery and ice cream.	1919	11	189	457	135	714	1,100
	1914	8	155	194	111	265	551		1914	6	150	140	62	414	558
Copper, tin, and sheet-iron work.	1919	12	111	71	137	281	663	Copper, tin, and sheet-iron work.	1919	10	131	90	135	276	837
	1914	16	60	40	43	160	307		1914	8	72	47	52	112	206
	1909	10	51	43	40	82	173	Druggists' preparations...	1919	3	89	69	128	926	1,317
Flour-mill and gristmill products.	1919	5	40	615	43	1,329	1,488		1914	5	39	10	24	223	411
	1914	6	39	433	24	506	579	Foundry and machine-shop products.	1919	9	92	182	124	107	320
	1909	6	42	271	23	653	757		1914	13	84	218	69	79	221
Foundry and machine-shop products. <sup>2</sup>	1919	26	227	519	295	674	1,460	Fur goods.....	1919	5	17	16	14	78	193
	1914	26	271	714	105	556	1,139		1914	4	13	82	9	13	44
	1909	25	335	798	218	828	1,613	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	5	159	632	214	388	805
Fur goods.....	1919	4	99	36	118	432	840		1914	6	108	525	120	229	462
	1914	4	38	30	24	42	100	Mineral and soda waters..	1919	4	15	42	24	131	245
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	10	180	490	187	725	1,463		1914	5	19	34	13	45	105
	1914	13	181	438	132	825	1,024	Printing and publishing, book and job.	1919	17	90	142	98	135	376
	1909	8	136	(*)	83	392	606		1914	12	97	96	64	161	344
Patent and proprietary medicines.	1919	18	145	215	107	421	1,479	Printing and publishing, newspapers and periodicals.	1919	11	261	468	342	723	1,705
	1914	16	136	246	64	225	842		1914	15	238	727	207	287	861
	1909	21	167	(*)	49	268	816	Saddlery and harness.....	1919	6	35	27	37	259	364
Printing and publishing. <sup>4</sup>	1919	84	975	1,760	1,080	2,385	9,404		1914	8	43	9	33	100	177
	1914	87	965	1,231	737	1,161	4,501	Tobacco, cigars.....	1919	9	29	4	23	62	114
	1909	85	863	931	498	979	3,267		1914	10	48	.....	29	39	96
Stoves and hot-air fur- naces.	1919	5	230	317	320	460	1,267	All other industries.....	1919	97	5,127	11,630	7,140	118,606	134,781
	1914	4	143	211	107	100	439		1914	97	3,428	9,443	2,311	38,090	44,424
	1909	5	115	121	80	79	284								
Tobacco, cigars.....	1919	12	60	11	54	101	214								
	1914	10	74	2	40	64	142								
	1909	14	107	.....	49	73	178								
All other industries.....	1919	150	4,213	10,906	4,348	23,516	36,209								
	1914	149	2,561	7,540	1,625	7,467	11,630								
	1909	170	3,043	5,357	1,601	9,550	14,585								

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

BOONE.....	1919	30	369	437	\$375	\$699	\$1,550	IOWA CITY.....	1919	49	322	880	\$268	\$926	\$1,767
	1914	33	256	487	142	489	908		1914	61	350	714	212	571	1,333
	1909	33	166	313	88	222	469		1909	44	282	814	143	340	805
BURLINGTON.....	1919	97	2,274	4,875	2,170	6,782	12,090	KEOKUK.....	1919	71	1,598	7,527	1,549	11,917	17,555
	1914	118	2,246	3,993	1,310	3,751	6,880		1914	85	1,333	4,413	737	5,150	8,250
	1909	128	3,191	5,346	1,723	4,045	8,443		1909	91	1,541	3,219	776	4,684	7,399
CEDAR RAPIDS.....	1919	208	6,284	19,814	6,474	72,066	92,118	MARSHALLTOWN.....	1919	62	1,338	2,578	1,506	4,977	8,642
	1914	170	4,394	12,534	2,727	25,948	34,989		1914	61	1,060	2,388	693	3,338	5,150
	1909	153	3,565	7,224	1,869	18,650	24,824		1909	49	1,365	1,975	806	3,179	4,822
CLINTON.....	1919	119	3,452	9,884	4,090	19,345	30,321	MASON CITY.....	1919	59	2,367	18,078	2,859	23,054	29,513
	1914	105	2,679	8,842	1,614	6,949	10,427		1914	60	2,054	17,158	1,481	6,784	11,742
	1909	69	2,414	6,391	1,273	4,630	7,480		1909	49	807	3,729	470	1,796	2,881
COUNCIL BLUFFS.....	1919	111	1,891	3,978	2,474	5,542	10,611	MUSCATINE.....	1919	146	2,522	4,162	2,102	5,698	10,754
	1914	101	1,336	2,495	935	2,302	4,279		1914	142	2,397	4,871	1,166	3,009	5,999
	1909	101	1,434	1,756	845	1,067	3,769		1909	113	3,496	4,560	1,575	2,738	6,166
DUBUQUE.....	1919	131	6,147	10,861	6,024	19,952	34,277	OTTUMWA.....	1919	94	2,601	5,509	2,877	36,501	45,030
	1914	139	5,171	9,098	2,926	8,188	14,714		1914	88	2,447	4,434	1,498	18,014	21,300
	1909	156	5,160	9,623	2,602	9,002	15,249		1909	93	2,660	4,332	1,319	12,106	14,838
FORT DODGE.....	1919	80	1,605	4,178	1,395	7,198	10,884	WATERLOO.....	1919	161	4,020	9,910	5,791	23,393	35,481
	1914	56	951	2,930	612	3,118	4,871		1914	144	3,483	9,583	2,537	7,813	14,126
	1909	44	1,115	2,204	421	1,512	2,975		1909	108	3,124	4,247	1,793	4,642	8,999

<sup>1</sup> Comparative statistics by industries for 1914 and 1909 not available.  
<sup>2</sup> Includes "automobile repairing"; "gas machines and gas and water meters"; "iron and steel, welding"; "pumps, power, other than steam"; and "structural iron-work, not made in steel works or rolling mills," in all years; and "engines, steam, gas, and water" and "hardware," in 1914.  
<sup>3</sup> Figures not available.  
<sup>4</sup> Includes "bookbinding and blank-book making" in all years and "lithography" in 1914 and 1909.



MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

[illegible]

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

	All industries.....	5,683	105,439	5,303	5,572	9,312	4,611	80,551	No 85,825	Fe 75,141	(*)	(*)	(*)	(*)	(*)	Dollars. 403,205,513
1	Agricultural implements.....	26	1,141	20	93	69	53	906	De 991	Au 854	1,017	985	22	10	.....	5,232,334
2	Artificial stone products.....	255	1,081	280	79	30	20	672	Se 938	Ja 311	915	909	3	3	.....	3,077,059
3	Automobile bodies and parts.....	37	589	37	34	19	19	460	No 598	Ap 348	553	482	59	12	.....	1,234,457
4	Automobiles.....	6	151	1	19	15	12	104	Je 131	Au 64	100	100	.....	.....	.....	1,220,136
5	Automobile repairing.....	579	2,311	735	81	51	89	1,355	Au 1,632	Ja 1,110	1,430	1,409	19	2	.....	4,472,073
6	Awnings, tents, and sails.....	18	126	18	14	4	13	77	Au 108	Ja 49	73	53	20	.....	.....	299,286
7	Bookbinding and blank-book making.....	12	180	12	9	37	17	85	De 91	Se 80	92	48	42	1	1	115,431
8	Boots and shoes.....	6	740	2	26	38	21	653	Je 70	No 610	658	312	332	10	4	1,759,007
9	Boxes, cigar.....	7	81	4	7	1	69	De 76	Jy 64	70	29	45	.....	2	2	111,876
10	Boxes, paper and other, not elsewhere specified.....	10	206	4	16	4	4	238	De 259	Ap 220	260	80	171	3	6	407,307
11	Boxes, wooden packing, except cigar boxes.....	15	168	15	11	4	3	135	Ja 143	Jy 127	135	127	2	0	.....	293,105
12	Brass and bronze products.....	5	30	6	5	2	1	25	Jy 30	Ja 8	20	25	4	.....	.....	142,626
13	Bread and other bakery products.....	538	3,992	609	165	354	281	2,583	No 1,090	Mh 755	2,873	1,813	965	63	32	9,401,672
14	Biscuit and crackers.....	7	1,229	.....	38	174	58	959	De 1,793	Ja 1,425	1,063	583	2	12	.....	3,656,987
15	All other.....	531	2,783	609	127	180	223	1,624	.....	.....	1,810	1,347	382	61	20	5,744,685
16	Brick and tile, terra-cotta, and fire-clay products.....	113	2,854	97	167	106	32	2,452	.....	.....	2,768	2,758	3	7	.....	13,559,969
17	Building brick.....	29	522	26	20	11	6	450	Se 644	Ja 123	547	545	1	1	.....	3,643,025
18	Sewer pipe and drain tile.....	63	1,446	54	92	43	15	1,242	Au 1,638	Ja 501	1,407	1,405	2	.....	.....	6,358,761
19	Terra-cotta products.....	17	702	12	35	48	9	598	Je 741	Ja 342	618	612	.....	6	.....	3,257,667
20	All other.....	4	184	5	11	4	2	162	Je 215	De 77	196	196	.....	.....	.....	700,616
21	Brooms, from broom corn.....	44	302	55	20	20	9	198	De 218	Jy 182	218	151	64	2	1	742,182
22	Butter.....	411	2,386	234	273	162	122	1,595	Je 1,881	Mh 1,243	1,637	1,378	250	9	.....	9,292,240
23	Buttons.....	77	2,347	77	83	62	34	2,091	De 2,497	My 1,930	2,575	1,586	801	23	65	4,785,300
24	Canning and preserving, fruits and vegetables.....	62	1,540	32	157	48	32	1,271	Se 5,365	Fe 326	3,514	1,802	1,637	11	4	7,826,193
25	Carpets, rag.....	22	103	22	5	7	5	64	Au 75	Ja 53	62	33	20	.....	.....	84,428
26	Carriage and wagon materials.....	8	129	4	15	11	5	94	De 113	Ja 70	113	113	.....	.....	.....	407,980
27	Carriages and wagons, including repairs.....	60	573	78	25	54	17	399	.....	.....	452	445	7	.....	.....	2,131,574
28	Carriages and wagons.....	31	504	39	24	54	16	371	De 430	Fe 320	422	415	7	.....	.....	2,041,394
29	Repair work only.....	29	69	39	1	1	28	Je 31	My 25	.....	30	30	.....	.....	.....	140,280
30	Cars and general shop construction and repairs by electric-railroad companies.....	15	345	.....	13	4	5	323	Mh 331	Au 312	321	316	5	.....	.....	841,603
31	Cars and general shop construction and repairs by steam-railroad companies.....	51	14,214	.....	522	29	127	13,536	De 14,037	Je 13,157	14,015	13,944	71	.....	.....	17,410,291
32	Cement.....	4	1,170	.....	29	99	25	1,017	Se 1,310	Ja 536	1,041	1,025	16	1	.....	11,740,404
33	Cheese.....	20	37	19	.....	1	17	Mh 19	De 12	.....	20	19	1	.....	.....	90,375
34	Chemicals.....	5	103	.....	14	12	5	72	Je 109	Ap 32	104	100	4	.....	.....	1,081,227
35	Cleaning and polishing preparations.....	8	70	2	15	16	16	21	Je 26	De 16	24	23	1	.....	.....	231,667
36	Clothing, men's.....	18	844	1	48	71	19	705	De 137	Ap 142	840	58	774	1	7	2,434,539
37	Men's and youths'.....	4	105	.....	9	22	5	159	De 187	Ap 142	187	19	162	1	5	981,874
38	All other.....	14	649	1	39	49	14	546	De 657	Mh 418	653	39	612	2	.....	1,452,065
39	Clothing, women's.....	10	613	4	45	43	18	503	Oc 556	My 467	532	128	404	.....	.....	1,828,937
40	Coffee, roasting and grinding.....	16	331	7	36	98	17	173	Au 184	Ap 163	170	71	105	.....	.....	2,349,135
41	Coffins, burial cases, and undertakers' goods.....	8	390	1	25	38	8	318	De 390	My 307	340	271	65	3	1	1,604,630
42	Condensed milk.....	3	58	.....	3	2	.....	51	Ja 57	Ap 45	45	38	7	.....	.....	541,409
43	Confectionery and ice cream.....	182	2,432	201	145	241	106	1,739	No 1,697	Jy 1,143	1,971	810	1,118	35	8	4,955,569
44	Confectionery.....	59	1,759	55	63	196	57	1,368	No 1,697	Ja 1,143	1,596	506	1,080	2	8	3,087,534
45	Ice cream.....	123	673	140	62	46	49	371	Jy 547	Ja 233	375	304	38	33	.....	1,988,535
46	Cooperage.....	14	137	15	5	1	2	111	.....	.....	121	120	1	.....	.....	337,862
47	Hogsheads and barrels.....	7	57	6	2	1	47	De 55	Je 37	.....	55	55	.....	.....	.....	184,037
48	All other.....	7	80	0	3	1	3	64	Je 78	De 44	66	66	1	.....	.....	153,815
49	Copper, tin, and sheet-iron work.....	120	1,123	118	86	64	52	803	De 924	Mh 054	939	916	16	7	.....	3,079,470
50	Cutlery and edge tools.....	3	57	2	1	30	.....	24	Ja 31	Jy 20	28	15	10	2	1	43,616
51	Dairymen's, poultrymen's, and apinists' supplies.....	12	575	7	33	66	35	434	.....	.....	510	497	13	.....	.....	2,411,164
52	Poultrymen's supplies, other than incubators and brooders.....	6	39	7	5	1	2	24	Au 31	Ja 15	32	26	6	.....	.....	158,013
53	All other.....	6	536	.....	28	65	33	410	Mh 512	Au 241	478	471	7	.....	.....	2,253,151
54	Druggists' preparations.....	15	374	7	50	55	28	234	Je 258	Fe 205	251	192	59	.....	.....	1,606,066
55	Electrical machinery, apparatus, and supplies.....	7	118	4	17	6	9	82	De 96	Fe 72	96	81	15	.....	.....	325,558
56	Electroplating.....	6	30	8	1	.....	.....	21	No 29	Fe 13	28	25	.....	3	.....	28,567
57	Engines, steam, gas, and water.....	17	3,482	2	208	302	231	2,739	Mh 3,536	Au 1,489	2,920	2,905	22	2	.....	13,427,407
58	Flavoring extracts.....	8	22	3	4	1	3	11	Au 18	Fe 7	16	11	5	.....	.....	128,990
59	Flour-mill and gristmill products.....	180	928	219	82	79	39	509	De 576	Jy 475	588	578	7	3	.....	9,116,142
60	Food preparations, not elsewhere specified.....	30	3,565	29	45	860	190	2,441	.....	.....	2,809	2,176	691	1	1	21,908,026
61	Breadstuff preparations, cereals and breakfast foods.....	7	3,361	3	32	829	175	2,322	No 3,071	Ap 1,620	2,651	1,994	655	1	1	21,037,393
62	Sweetening sirups, other than cane.....	11	43	14	.....	2	1	26	Se 105	Ja 4	107	101	6	.....	.....	272,747
63	All other.....	12	161	12	13	29	14	93	Au 117	Ap 3	111	81	30	.....	.....	598,516
64	Foundry and machine-shop products.....	198	4,003	182	394	371	187	3,529	.....	.....	3,076	3,880	82	13	1	16,265,905
65	Bolter shops.....	17	112	14	8	3	6	81	Oc 83	My 70	87	79	.....	8	.....	412,582
66	Foundries.....	17	742	11	45	15	6	665	De 835	Au 528	887	859	8	.....	.....	1,724,155
67	Machine shops.....	146	2,239	138	186	295	122	1,498	De 1,622	Mh 1,370	1,659	1,608	48	2	1	8,292,117
68	Machine shop and foundry combined.....	24	1,510	19	95	58	53	1,285	De 1,429	Jy 1,226	1,363	1,334	26	3	.....	5,837,071
69	Fur goods.....	20	401	21	35	35	42	268	Fe 320	Au 203	307	145	161	.....	1	998,849
70	Furniture.....	36	1,063	23	54	67	30	894	.....	.....	1,051	954	91	6	.....	2,563,588
71	Wood furniture, other than rattan and willow.....	23	689	7	43	57	22	560	No 640	Ja 469	636	607	23	6	.....	1,586,093
72	Store and office fixtures.....	13	379	16	11	10	8	334	De 414	Ja 261	415	347	68	.....	.....	977,493
73																

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains)

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



# MANUFACTURES—IOWA.

25

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.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rent- <sup>2</sup>
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars. 15,244,798	Dollars. 18,799,162	Dollars. 90,117,169	Dollars. 1,470,139	Dollars. 2,074,772	Dollars. 13,025,449	Dollars. 500,034,871	Dollars. 14,205,936	Dollars. 715,472,697	Dollars. 225,231,890	242,946	101,494	17,948	7,030	3,802	112,612	53,799	1
327,991	156,642	1,082,273	350	3,149	181,829	2,740,546	81,651	5,959,129	3,136,932	2,396	305	—	99	—	1,992	2	2
139,316	48,095	734,426	19,798	9,703	20,552	1,232,251	55,997	2,902,302	1,674,354	2,563	456	—	437	247	1,423	23	3
79,644	60,657	469,091	9,004	22,129	22,532	796,817	19,624	1,713,098	895,567	552	150	—	—	—	402	58	4
48,196	32,989	126,342	15,690	3,485	7,834	1,141,106	11,407	1,584,005	431,492	161	—	—	—	—	161	—	5
134,473	121,874	1,736,347	8,811	187,961	39,918	2,187,107	144,938	5,806,835	3,474,730	3,232	10	—	803	—	2,419	4	6
27,861	24,767	62,370	300	12,355	12,089	209,618	3,921	416,680	203,141	91	17	—	—	—	92	—	7
14,621	84,869	64,865	4,500	8,281	12,596	133,442	2,965	421,508	285,101	62	—	—	—	—	504	—	8
62,249	95,074	449,358	3,126	9,000	6,552	2,264,199	15,673	3,047,187	777,315	779	275	—	—	—	57	—	9
13,344	675	44,265	—	1,500	1,345	64,752	2,082	179,446	112,612	57	—	—	—	—	112,010	—	10
28,431	11,807	142,137	—	11,329	52,380	971,072	7,260	1,437,506	459,264	178	60	—	—	—	118	—	11
29,179	4,135	105,388	—	2,400	2,112	342,892	7,448	534,632	181,292	621	425	—	4	—	192	7	12
19,312	2,608	33,910	—	280	551	144,968	8,072	224,916	71,846	51	—	—	—	—	51	—	13
353,479	787,415	2,973,473	9,777	105,140	239,380	12,092,631	417,990	20,244,067	7,733,476	3,376	698	2	79	1	2,596	608	14
100,378	420,531	748,842	—	2,985	141,552	2,930,222	61,496	5,833,172	2,832,454	1,214	603	—	—	—	521	688	15
244,101	366,884	2,224,631	9,777	102,155	154,828	9,150,409	353,461	14,410,595	4,901,022	2,162	5	2	79	1	2,075	20	16
365,455	184,193	2,064,261	25,489	21,769	97,466	945,135	1,004,077	5,487,915	18,335	18,335	10,823	289	451	—	6,781	586	17
61,746	17,837	597,795	778	15,139	19,434	122,771	280,368	1,391,090	987,951	4,216	2,400	80	12	—	1,754	45	18
189,623	72,520	1,481,216	680	3,346	45,512	521,150	892,686	3,928,379	2,554,543	3,838	6,513	200	393	—	1,732	511	19
88,799	86,193	705,980	21,531	27,598	239,907	427,146	1,496	2,266,864	1,589,811	3,436	1,210	—	46	—	2,180	30	20
25,287	7,643	209,270	2,500	1,200	4,921	61,307	133,877	550,824	355,610	1,815	700	—	—	—	1,115	—	21
41,267	49,487	180,702	142	3,345	6,460	537,177	7,747	1,052,237	607,313	1,263	130	—	18	—	115	—	22
490,718	310,443	1,678,637	61,371	35,728	276,080	48,946,955	492,520	50,422,287	9,082,806	9,681	5,422	117	781	47	3,314	568	23
236,687	159,925	1,619,448	131,538	10,153	63,696	2,411,221	65,697	5,615,465	3,158,677	2,340	1,595	—	137	—	608	7	24
305,228	103,942	876,294	100,000	10,364	252,839	5,147,037	119,315	8,014,770	2,748,418	6,611	4,280	165	40	—	2,126	495	25
8,980	10,848	53,404	250	3,400	698	20,813	5,290	144,434	112,331	142	—	—	24	—	118	—	26
44,377	16,759	99,194	—	1,880	3,748	355,906	10,961	610,699	244,132	438	125	—	9	—	304	—	27
43,104	55,168	332,971	1,565	13,920	14,588	611,497	29,728	1,544,383	903,158	1,251	624	—	138	—	489	14	28
43,104	55,168	297,181	1,565	12,211	13,206	554,807	25,424	1,307,468	817,237	1,088	624	—	83	—	381	8	29
—	60	35,790	—	1,709	1,382	56,690	4,304	140,915	85,921	163	—	—	55	—	108	6	30
28,327	9,185	401,530	7,183	—	12,071	297,402	14,393	709,596	457,771	538	50	—	—	—	488	8	31
1,409,793	546,479	18,900,237	1,015	—	105,975	11,221,140	907,830	33,098,600	20,879,630	12,063	7,020	2,418	166	—	2,450	12,390	32
94,261	194,432	1,515,337	85,233	—	245,010	3,467,156	1,712,930	8,121,014	2,940,928	17,331	13,725	3,600	6	—	17,953	33	33
—	200	17,342	—	825	145	243,972	4,794	284,145	35,370	100	93	—	2	—	5	—	34
25,194	21,694	76,927	—	—	17,068	250,660	70,076	558,084	237,339	834	225	—	—	—	609	—	35
20,683	33,729	18,499	—	2,682	4,597	124,035	1,501	275,154	140,681	105	5	—	—	—	100	—	36
135,528	152,154	390,985	4,200	22,930	102,885	2,538,270	12,398	3,717,154	1,166,486	239	—	—	—	—	239	—	37
25,659	30,056	102,064	—	190	54,979	589,978	2,733	822,021	260,310	82	—	—	—	—	82	—	38
109,869	122,098	288,021	4,200	22,740	107,903	1,948,292	9,605	2,855,133	897,176	157	—	—	—	—	157	—	39
144,736	87,978	316,615	—	4,865	30,700	1,102,856	42,624	2,099,149	923,069	405	275	—	—	—	130	—	40
90,468	150,987	145,248	—	20,937	48,502	4,339,811	15,930	5,128,536	773,295	583	119	—	—	—	476	—	41
72,691	111,812	320,879	—	6,000	154,049	851,138	21,094	1,048,700	776,558	511	180	—	—	—	331	—	42
35,999	6,953	60,237	—	5,644	4,140	755,035	37,559	1,093,716	301,122	354	340	—	—	—	14	—	43
333,847	635,285	1,285,300	24,037	92,190	519,937	6,081,838	189,065	11,534,628	4,603,725	4,183	1,427	61	312	—	2,383	182	44
246,084	506,530	878,647	—	53,502	477,620	4,231,095	95,118	7,569,652	3,239,830	1,890	1,041	—	—	—	848	177	45
137,263	68,749	406,743	24,037	38,598	42,417	2,450,143	93,947	3,967,076	1,423,886	2,294	386	61	312	—	1,535	5	46
16,320	5,243	115,386	130	29,032	490,731	460,707	8,710	805,794	306,353	263	192	—	24	—	47	—	47
10,800	1,588	53,613	—	410	26,380	293,405	3,418	469,707	172,884	102	75	—	20	—	7	—	48
5,520	3,600	61,773	80	133	2,052	197,326	5,292	336,087	133,409	161	117	—	4	—	40	—	49
174,407	129,742	913,977	11,683	32,406	71,555	2,601,327	32,508	5,061,980	2,428,004	570	40	—	—	—	476	4	50
3,114	8,016	13,971	—	43	18,120	1,820	1,352	54,917	35,445	21	—	—	—	—	21	—	51
98,007	125,890	514,371	—	6,327	78,330	1,836,447	32,130	3,176,081	1,308,404	1,249	550	—	—	—	699	—	52
9,617	2,813	22,459	—	3,412	210	136,482	1,172	251,973	117,319	51	—	—	—	—	51	—	53
83,450	123,077	491,912	—	2,915	78,111	1,099,965	30,955	2,922,008	1,191,085	1,198	550	—	—	—	648	—	54
172,741	175,798	206,330	1,050	19,000	104,400	1,996,225	14,894	3,079,077	1,658,958	161	—	—	10	—	151	—	55
24,891	16,940	78,735	—	2,258	2,246	135,625	3,880	280,306	140,801	90	—	—	10	—	80	—	56
1,800	—	26,435	—	2,813	126	11,720	3,221	62,880	47,939	41	—	—	—	—	41	15	57
578,385	511,213	3,045,977	3,925	16,823	451,623	8,001,254	293,264	17,610,778	8,716,280	7,799	2,085	—	52	—	5,662	878	58
10,330	4,597	9,589	—	3,200	4,084	119,132	1,130	204,876	64,614	11	—	—	—	—	11	—	59
199,066	141,705	578,181	1,547	7,555	144,808	18,372,312	240,750	21,324,678	2,711,616	13,729	5,126	—	1,561	3,183	3,859	530	60
411,179	1,665,920	2,367,026	1,018	11,579	1,573,315	44,824,254	437,687	54,094,131	9,732,190	16,021	755	667	53	—	14,546	936	61
364,830	1,492,171	2,265,164	—	1,495,210	42,876,275	42,876,275	417,990	52,194,561	8,900,257	15,431	400	667	—	—	14,364	936	62
5,000	2,630	22,155	1,018	4,572	118	420,059	4,915	561,971	136,397	220	155						



## MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

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

																		Dollars.
1	Gas, illuminating and heating.....	68	1,052	1	101	135	88	727	De	750	Fe	696	816	813	3			20,600,750
2	Gas machines.....	5	24	1	3	1	2	17	No	20	Ja	14	10	10				128,405
3	Glass, cutting, staining, and ornamenting..	5	16	4				12	Oc	17	Ja	3	15	13	2			9,460
4	Gloves and mittens, leather.....	6	415	5	25	71	24	230	Jy	311	Ja	263	310	125	170	7	8	1,316,008
5	Gloves and mittens, cloth, not including gloves made in textile mills.	6	276	3	10	13	6	244	Ja	321	Se	204	289	36	251		2	661,901
6	Glucose and starch.....	4	1,168		34	93	34	1,007	Ja	1,431	De	763	1,216	1,183	33			10,548,184
7	Grease and tallow, not including lubricat- ing greases.	29	106	30	4	1	2	69					76	76				354,772
8	Soap stock.....	25	97	24	4	1	2	66	Oc <sup>a</sup>	73	Ap	60	72	72				319,892
9	All other.....	4	9	6				3	Se <sup>a</sup>	4 <sup>a</sup>	Ja <sup>a</sup>	2	4	4				34,880
10	Hand stamps.....	7	18	8				10	Se	15	Ja <sup>a</sup>	8	13	11	2			31,783
11	Hardware.....	10	725	9	38	61	39	578	No	718	Ja	469	711	620	90	1		2,039,362
12	Hats and caps, other than felt, straw, and wool.	4	79	3	5	6	2	63	De	110	My	29	110	23	87			102,078
13	Ice, manufactured.....	46	661	35	65	32	25	504	Jy	717	De	313	336	333	3			4,020,805
14	Instruments, professional and scientific.....	4	10	4				5	Oc <sup>a</sup>	6	Mh <sup>a</sup>	4	6	6				11,361
15	Iron and steel, tempering, welding, etc.....	8	34	11	1	1	2	19	Au	30	Ja <sup>a</sup>	12	20	19	1			59,185
16	Jewelry.....	18	108	17	11	7	7	66	Se	79	Ja	56	73	67	5	1		161,270
17	Lithographing.....	4	165	1	13	15	9	127	No	144	My <sup>a</sup>	118	141	97	41	3		323,913
18	Lubricating greases.....	3	21			7	1	13	Ja	15	No <sup>a</sup>	12	12	12				89,900
19	Lumber and timber products.....	32	280	31	13	10	3	203	Se	234	Au	170	258	257	1			558,218
20	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.	97	3,934	76	171	336	140	3,211	No	3,633	Ja	2,451	3,639	3,471	144	23	1	12,998,813
21	Marble and stone work.....	58	403	73	28	43	15	244					264	263	1			1,382,568
22	Monuments and tombstones.....	49	302	64	24	33	12	169	My	178	Ja	150	178	177	1			1,065,627
23	Other marble and stone work, except slate.	9	101	9	4	10	3	75	Au	102	Fe	41	86	80				316,941
24	Mattresses and spring beds, not elsewhere specified.	15	316	7	25	32	13	239	No	275	Ja	169	275	223	46	4	2	1,104,975
25	Millinery and lace goods, not elsewhere specified.	4	71	2	6	1	15	47	Oc	57	Jy	38	50	5	44		1	123,700
26	Mineral and soda waters.....	108	430	130	41	32	20	207	Jy	345	Ja	118	215	200	4	11		1,567,747
27	Models and patterns, not including paper patterns.	8	26	8			1	17	Jy <sup>a</sup>	20	Ap	13	17	17				31,516
28	Musical instruments and materials, not elsewhere specified.	4	7	7														8,250
29	Optical goods.....	9	103	5	7	5	15	71	Se	79	Ja <sup>a</sup>	64	60	41	15	2	2	228,527
30	Paints.....	4	30		8	9	3	10	Jy <sup>a</sup>	11	Ja <sup>a</sup>	8	11	11				203,768
31	Paper and wood pulp.....	4	151	1	6	5	3	136	Fe	191	Se	70	187	161	26			2,515,745
32	Patent medicines and compounds.....	90	1,541	68	131	776	173	393					429	239	185	1	4	4,215,997
33	Patent and proprietary medicines.....	81	1,522	58	130	775	172	387	Se	408	Ja	358	421	232	184	1	4	4,154,750
34	Patent and proprietary compounds, not elsewhere specified.	9	19	10	1	1	1	6	Se	10	Ja <sup>a</sup>	5	8	7	1			61,247
35	Paving materials.....	21	273	14	18	18	4	219	Se	300	Ja	99	279	279				1,145,814
36	Perfumery and cosmetics.....	9	225	10	19	61	16	119	De	137	My	109	137	26	111			730,555
37	Photo-engraving.....	3	30	2	6		3	19	Se	26	Mh	11	23	21	2			40,800
38	Pickles, preserves, and sauces.....	14	435	9	27	55	33	311	Au	492	Fe	228	329	176	128	3	22	1,985,904
39	Poultry, killing and dressing, not done in slaughtering and meat-packing establish- ments.	47	900	55	49	69	38	689	De	1,648	Mh	251	1,430	1,154	268	3	5	2,642,122
40	Printing and publishing, book and job.....	207	1,775	199	160	27	145	1,244					1,428	902	484	27	15	3,971,693
41	Job printing.....	191	1,697	188	152	16	134	1,207	De	1,361	Ja	1,134	1,387	809	476	27	15	3,805,327
42	Book publishing and printing.....	8	40	5	3	10	10	12	Fe <sup>a</sup>	14	Ap <sup>a</sup>	10	13	7	6			74,891
43	Linotype work and typesetting.....	8	38	6	5	1	1	25	No <sup>a</sup>	28	Fe	20	28	26	2			91,475
44	Printing and publishing, newspapers and periodicals.	774	6,363	826	437	1,050	698	3,352					3,501	2,530	812	150	9	15,545,132
45	Printing and publishing.....	31	1,003	14	101	265	149	474	De	502	Fe	443	505	456	37	12		2,215,278
46	Printing, publishing, and job printing.....	679	5,059	787	268	729	413	2,862	De	3,243	Ja	2,717	2,976	2,004	765	138	9	12,474,351
47	Publishing without printing.....	64	301	25	68	56	136	16	Fe	21	Ja <sup>a</sup>	12	20	10				855,493
48	Pumps, steam and other power.....	4	409		16	52	18	323	De	378	Ja	271	378	339	20	16	3	1,373,813
49	Refrigerators.....	3	145		11	7	6	124	De	134	Se	115	134	131	3			445,210
50	Rubber tires, tubes, and rubber goods, not elsewhere specified.	9	977	1	40	59	38	839	Oc	995	Ja	540	1,008	940	68			9,928,488
51	Saddlery and harness.....	110	618	126	34	51	12	395	Oc	496	Jy	330	379	372	7			3,052,322
52	Sausage, not made in slaughtering and meat-packing establishments.	9	89	8	6	7	5	63	De	75	Ap	53	65	63	2			92,446
53	Shipbuilding, wooden, including boat building.	5	11	6				5	Se	9	Oc	3	6	6				33,680
54	Shirts.....	4	96		10	6	7	73	Au	85	Fe	64	79	10	68	1		70,347
55	Signs and advertising novelties.....	17	643	11	35	123	124	350					420	230	182	2	6	1,979,338
56	Electric signs.....	3	22	4	2		2	14	No <sup>a</sup>	19	Fe	8	17	17				21,022
57	Other signs.....	7	42	6	2	1	4	29	No	41	Mh	21	38	37	1			109,627
58	Advertising novelties.....	7	579	1	31	122	118	307	No	404	Fe	204	365	176	181	2	6	1,848,689
59	Slaughtering and meat packing.....	21	8,965	11	145	1,855	320	7,134	Ja	8,170	Se	6,032	8,051	7,240	793	15	3	59,818,152
60	Soap.....	7	135	7	14	20	6	82	Se	95	Ap	57	88	61	26			1,009,268
61	Stationary goods, not elsewhere specified..	3	11	4	3	1	2	1	(*)	1	(*)	1	1	1				14,696
62	Steam fittings and steam and hot-water heating apparatus.	5	245	2	31	26	19	167	Au	176	Mh	157	176	166	10			912,828
63	Stoves and hot-air furnaces.....	10	554	1	40	69	32	412	Oc	526	My	311	492	401	1			2,913,549
64	Structural ironwork, not made in steel works or rolling mills.	17	319	7	28	46	14	224	Se	281	Mh	147	240	240				1,477,639
65	Tobacco, chewing and smoking, and snuff..	6	59	6	3	5	3	42	Fe <sup>a</sup>	45	No	38	43	17	26			344,336

<sup>a</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>b</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



# MANUFACTURES—IOWA.

27

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	5,316	3,927	545	147	1	696	1,103	1
184,472	217,506	819,467	10,080	324,981	874,171	1,767,102	5,737,027	3,000,354	5,316	3,927	545	147	1	696	1,103	1	696	1,103	2
5,040	3,156	17,874	1,638	441	23,303	1,149	105,958	81,446	24	24	24	24	24	24	24	24	24	24	3
89,379	135,809	188,826	533	1,924	15,377	425	39,717	23,915	8	8	8	8	8	8	8	8	8	8	4
21,307	11,005	97,937	180	2,970	14,115	748,799	4,052	767,042	81	30	30	30	30	30	30	30	30	30	5
			439	5,030	5,928	521,116	4,602	231,479	112								112		
239,476	375,388	1,498,247	344	1,612,199	17,012,560	928,815	24,688,750	7,047,379	8,418	1,741	4,759	47		1,914	5,552		8,418		6
16,440	2,169	94,069	5,170	3,028	365,217	19,557	609,239	284,465	287	207	4			33			287		7
10,440	2,169	89,375	2,170	2,258	353,801	18,344	635,432	263,287	265	207	45			13			265		8
		4,694	3,000	770	11,416	1,213	33,807	21,178	22		2			20			22		9
		11,100		1,116	93	11,072	374	27,378	11					11			11		10
118,104	137,720	581,641	60,000	5,340	891,299	27,033	2,257,523	1,330,191	531	125				406			531		11
12,085	5,080	52,007	2,784	2,784	104,836	950	280,063	114,877	7					7			7		12
157,449	46,356	539,271	3,029	5,675	56,446	186,727	345,750	1,841,012	5,850	4,140	445			1,274	371		5,850		13
	650	4,843	501	280	80	7,409	298	21,552	11					11			11		14
	2,447	28,067	15	3,270	143	23,440	5,882	91,389	20					20			20		15
2,000	7,978	65,393	704	6,111	4,080	86,461	2,075	273,000	46					46			46		16
16,941	61,070	146,719	4,400	9,960	8,630	339,557	4,857	744,462	138					138			138		17
50,492	24,114	13,806	873	50	387	72,580	930	131,565	72	12				60			72		18
90,564	31,115	254,201	11,973	2,363	11,211	444,854	11,524	970,084	1,461	823	15	63		500			1,461		19
489,783	688,990	2,789,381	74	18,031	263,565	8,646,970	138,826	16,387,832	9,004	5,643	900	64		2,997	3,320		9,004		20
77,607	113,383	339,301	18,238	12,578	17,687	1,000,385	20,682	2,168,561	970	75		19		885			970		21
68,041	86,905	230,094	18,238	8,411	14,543	777,414	21,100	1,692,947	478	75		19		384			478		22
9,566	26,478	109,207	4,167	4,167	3,144	222,971	8,582	475,614	501					501			501		23
58,347	44,000	272,359	100	8,478	78,986	1,107,822	14,889	1,991,554	670	94				576	13		670		24
13,983	13,504	20,315		6,715	14,004	117,263	594	263,724	8					8			8		25
81,235	48,121	189,922	5,092	21,743	106,879	798,057	27,528	1,632,801	416	60		18		332			416		26
	520	28,070		1,270	401	14,925	327	63,288	30					30			30		27
			276	66	1,160	00	7,704	6,430	3					3			3		28
22,033	15,407	55,504		7,914	11,491	108,613	1,085	340,955	31					31			31		29
28,521	41,049	16,047		3,748	4,759	157,559	2,067	268,434	90					90			90		30
32,400	11,857	141,161		6,514	224,252	68,401	612,132	319,479	1,932	1,025		73		907			1,932		31
264,563	1,180,392	332,404	3,476	26,606	174,506	1,033,126	20,776	6,348,551	864	185		73		606	93		864		32
284,260	1,178,940	329,092	3,328	26,320	172,899	1,018,910	20,807	6,315,918	837	185		73		579	93		837		33
303	1,452	3,812	150	286	1,097	14,216	370	32,633	27					27			27		34
25,914	23,410	225,312		15,225	2,989	101,096	47,203	464,434	4,267	2,708	48			1,511			4,267		35
53,950	117,013	59,301		6,880	14,950	685,985	4,759	1,239,587	104	30				74			104		36
16,613	2,070	24,415	1,414	39	1,800	82,140	760	82,140	16					16			16		37
63,868	111,487	224,058	314	3,480	40,996	1,445,760	22,825	2,208,457	338	202		2		134			338		38
95,256	113,382	722,168	23,255	23,793	9,709,566	50,237	11,449,501	1,083,068	1,428	370		32		1,026	221		1,428		39
378,306	279,907	1,170,739	35,909	114,813	38,688	1,844,838	50,022	5,209,500	1,440			29		1,411			1,440		40
370,584	263,630	1,130,839	26,243	110,769	37,861	1,827,239	50,500	5,064,824	1,423			29		1,394			1,423		41
3,800	14,902	11,734	9,606	2,306	102	8,028	242	65,711	6					6			6		42
3,922	1,375	34,166		1,738	725	8,071	2,211	79,025	11					11			11		43
1,222,800	1,658,300	3,746,063	470,076	245,771	355,805	5,102,464	303,034	20,430,960	5,353	490	4	445	8	4,397	355		5,353		44
290,978	441,523	586,675	14,760	32,291	130,424	994,005	100,163	3,682,175	959			14		945			959		45
794,006	1,038,542	3,146,990	43,245	187,672	215,654	3,974,899	203,180	15,510,172	4,383	499	4	431	8	3,441	355		4,383		46
128,816	178,235	12,380	412,071	25,808	3,727	193,560	591	1,238,609	11					11			11		47
69,496	78,283	404,731		5,000	44,911	605,347	40,834	1,379,019	582					582			582		48
19,080	21,743	138,044		840	10,766	294,090	4,275	566,034	197	195				2			197		49
187,077	105,923	1,008,086	11,550	13,321	283,640	3,598,237	121,496	6,333,253	4,293	250				4,043			4,293		50
102,955	72,409	493,040	470	28,082	232,016	2,608,298	21,155	4,167,588	409	75		34		300			409		51
13,625	11,107	73,257		3,080	664	364,175	3,843	502,826	92					92			92		52
		4,539	30	120	530	15,756	201	36,936	26	4		16		6			26		53
17,061	10,929	40,895		2,565	549	47,438	1,058	141,338	19					19			19		54
121,770	551,306	331,487		9,357	29,882	624,122	14,555	2,307,339	232			2		230			232		55
3,120	720	16,265		1,392	42	8,094	248	30,643	4			2		2			4		56
3,640	3,458	34,399		5,326	472	48,351	369	116,578	33					33			33		57
115,010	547,128	280,823		2,639	29,368	597,677	13,938	2,219,795	195					195			195		58
628,962	2,305,072	8,738,195	211,904	212,158	1,380,394	203,215,931	1,204,755	226,361,698	15,527	10,545	840			4,142	3,284		15,527		59
31,295	69,750	67,769		255	38,248	983,138	10,290	1,427,489	140	90				50			140		60
1,600	2,867	572		113	4,907	13,113	23,113	18,016											61
104,967	47,632	171,329		630	55,004	380,140	11,634	1,190,267	393	100				293			393		62
192,566	211,269	548,778	1,475	37,016	62,594	967,736	22,681	3,096,167	636					636			636		63
96,963	70,346	266,561	2,775	4,440	10,299	984,173	25,414	1,699,473	900	200				590	267		900		64
8,720	23,424	24,257	24	92,649	29,114	212,582	2,931	432,857	19					19			19		65

\* Same number reported for one or more other months.  
\* Same number reported throughout the year.



## MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

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

																Dollars.
1	Tobacco, cigars.....	211	1,627	228	38	41	15	1,305	No 1,384	Jy 1,230	1,362	593	743	16	10	1,828,071
2	Tools, not elsewhere specified.....	17	434	14	34	26	17	343	Fe 45	My 29	404	359	45	.....	.....	1,383,379
3	Shovels, spades, scoops, and hoes.....	6	58	6	7	8	2	35	Oc 304	Ap 152	367	327	40	.....	.....	286,394
4	All other.....	11	376	8	27	18	15	308	Oc 112	Fe 53	109	8	101	.....	.....	1,097,485
5	Toys and games.....	5	99	11	1	.....	2	16	An 18	Ja 15	16	13	3	.....	.....	33,860
6	Trunks and valises.....	10	30	12	.....	.....	.....	884	No 1,160	Ja 577	1,072	1,070	.....	2	.....	71,333
7	Wall plaster and composition flooring.....	7	1,012	.....	21	80	27	884	De 1,185	Ja 915	1,189	1,173	13	3	.....	2,228,687
8	Washing machines and clothes wringers.....	14	1,484	.....	130	204	87	1,093	Je 1,185	Se 84	1,189	1,173	13	3	.....	5,803,851
9	Wirework, not elsewhere specified.....	10	141	8	10	3	6	114	Je 135	Se 84	118	86	32	.....	.....	413,873
10	Wood, turned and carved.....	8	145	7	10	3	7	118	Je 131	Ja 104	122	115	7	.....	.....	430,220
11	All other industries*.....	110	6,888	51	296	462	268	5,811	.....	.....	.....	.....	.....	.....	.....	32,830,932

\*All other industries embrace—  
 Artificial flowers..... 1  
 Artificial limbs..... 2  
 Baking powders and yeast..... 1  
 Baskets, and rattan and willow ware..... 2  
 Blacking, stains, and dressings..... 1  
 Bluing..... 1  
 Brushes..... 2  
 Butter, reworking..... 1  
 Cars, steam-railroad, not including operations of railroad companies..... 2  
 Cash registers and calculating machines..... 2

Cordage and twine..... 1  
 Dental goods..... 2  
 Engraving, steel and copper plate, including plate printing..... 1  
 Explosives..... 1  
 Ferroalloys..... 1  
 Fertilizers..... 1  
 Fireworks..... 1  
 Flags and banners..... 2  
 Furnishing goods, men's..... 4  
 Gas and electric fixtures..... 2  
 Glue, other than fish..... 1

Hair work..... 1  
 Iron and steel, steel works and rolling mills..... 2  
 Ivory, shell, and bone work, not including combs and hairpins..... 2  
 Knit goods..... 1  
 Labels and tags..... 1  
 Lead, bar, pipe, and sheet..... 1  
 Lime..... 2  
 Liqueurs, malt..... 2  
 Locomotives, not made by railroad companies..... 1  
 Looking-glass and picture frames..... 1  
 Machine tools..... 1

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

																	Dollars.
1	DAVENPORT—All industries.....	219	5,271	192	352	516	283	3,928	De 4,482	Ja 3,671	4,517	3,301	1,172	20	24	19,943,982	
2	Artificial stone products.....	4	26	5	5	.....	1	15	Jy 25	Ja 0	15	15	.....	.....	.....	60,033	
3	Automobile bodies and parts.....	4	28	5	2	1	1	19	Jy 22	Ja 15	20	20	.....	.....	.....	42,800	
4	Automobile repairing.....	14	122	10	9	14	12	77	Jy 85	Ja 60	82	82	.....	.....	.....	350,405	
5	Bread and other bakery products.....	21	540	20	19	81	40	380	De 426	Mh 345	428	235	190	1	2	1,706,679	
6	Butter.....	3	31	.....	4	8	9	10	Oc 15	Ja 7	11	8	3	.....	.....	557,181	
7	Confectionery and ice cream.....	7	222	.....	23	34	22	143	.....	.....	.....	.....	.....	.....	.....	515,838	
8	Confectionery.....	3	144	.....	8	23	9	104	Se 136	My 74	116	42	74	.....	.....	245,178	
9	Ice cream.....	4	78	.....	15	11	13	39	Jy 55	Ja 26	84	32	2	.....	.....	270,660	
10	Foundry and machine-shop products.....	15	874	26	52	37	22	737	De 824	Je 689	826	785	41	.....	.....	3,284,531	
11	Furniture, store and office fixtures.....	4	20	5	.....	2	.....	13	Oc 16	Ja 9	13	12	1	.....	.....	19,323	
12	Marble and stone work, except slate.....	4	24	8	.....	1	.....	15	An 20	Fe 10	17	17	.....	.....	.....	93,128	
13	Mattresses and spring beds, not elsewhere specified.....	4	42	2	5	4	2	29	De 39	Ja 14	38	29	7	.....	2	82,769	
14	Mineral and carbonated waters.....	4	15	5	1	1	.....	8	Jy 13	Ja 5	11	10	.....	1	.....	21,032	
15	Printing and publishing, book and job.....	19	161	24	10	13	4	110	De 130	Je 97	130	61	67	2	.....	299,462	
16	Printing and publishing, newspapers and periodicals.....	6	200	2	33	69	37	59	No 64	Ja 56	60	57	3	.....	.....	325,419	
17	Tobacco, chewing and smoking.....	3	15	3	1	.....	.....	11	Fe 12	Ja 9	11	4	7	.....	.....	12,521	
18	Tobacco, cigars.....	17	493	17	10	16	11	439	Se 469	Jy 394	450	150	293	4	3	830,413	
19	Washing machines and clothes wringers.....	3	278	.....	27	22	20	209	Se 237	Ja 165	219	206	13	.....	.....	977,470	
20	All other industries *.....	87	2,180	60	151	213	102	1,654	.....	.....	2,036	1,536	471	12	17	10,764,978	

\*All other industries embrace—

Automobiles..... 1  
 Awnings, tents, and sails..... 1  
 Blacking, stains, and dressings..... 1  
 Bookbinding and blank-book making..... 1  
 Boots and shoes..... 1  
 Boxes, cigar..... 2  
 Boxes, set-up paper boxes..... 1  
 Brooms, from broom corn..... 3  
 Buttons..... 5  
 Carpets, rag..... 1

Carriages and wagons, repair work only..... 2  
 Cars and general shop construction and repairs by electric-railroad companies..... 1  
 Chemicals..... 1  
 Clothing, men's..... 2  
 Coffee, roasting and grinding..... 1  
 Copper, tin, and sheet-iron work..... 2  
 Electrical machinery, apparatus, and supplies..... 1  
 Electroplating..... 2  
 Engines, steam, gas, and water..... 1  
 Flavoring extracts..... 1

Flour-mill and gristmill products..... 4  
 Food preparations, not elsewhere specified..... 2  
 Fur goods..... 1  
 Gas and electric fixtures..... 1  
 Gas, illuminating and heating..... 1  
 Glass, cutting, staining, and ornamenting..... 2  
 Hand stamps..... 1  
 Ice, manufactured..... 2  
 Iron and steel, tempering, welding, etc..... 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).



# MANUFACTURES—IOWA.

29

## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.							
62,640	65,259	1,019,230	650	44,130	434,483	1,808,951	12,628	3,976,795	2,155,216	56	56							1
107,724	42,571	340,992		4,880	40,523	618,031	29,610	1,467,810	820,169	1,100	350	18	732	158				2
13,732	12,727	35,138			9,547	90,802	5,488	212,984	116,694	210		6	204					3
93,992	29,844	308,854		4,880	30,976	527,229	24,122	1,254,826	703,475	890	350	12	528	158				4
500	3,813	29,280	9,998	630	109	14,235	806	77,699	62,658	16			16					5
	1,650	17,772		4,875	880	14,258	380	57,026	42,388	3			3					6
101,274	157,153	889,991		10,098	27,244	648,470	191,819	2,026,390	1,786,095	3,335	1,744		1,591	899				7
362,044	581,315	1,212,683	396	5,480	105,277	4,572,127	56,379	8,814,946	4,180,440	1,418	274		1,144	100				8
36,880	8,509	95,607		4,704	17,989	528,042	9,068	790,886	262,151	252	105		147	84				9
23,108	6,566	90,217		3,030	2,743	135,437	10,499	240,384	103,478	527	170		357					10
942,678	1,134,486	6,281,020	50,045	75,063	1,243,081	23,060,356	970,914	41,470,999	16,800,700	22,044	4,584	3,400	6	175	13,879	1,352		11

Malt.....	1	Plumbers' supplies, not elsewhere specified.....	4	Stereotyping and electrotyping.....	1
Mucilage, paste, and other adhesives, not elsewhere specified.....	1	Pottery, earthen and stone ware.....	1	Stoves, gas and oil.....	1
Musical instruments, organs.....	1	Printing and publishing, music.....	1	Sugar, beet.....	1
Musical instruments, pianos.....	1	Printing materials.....	1	Surgical appliances.....	2
Oil, luseed.....	2	Pumps, not including power pumps.....	4	Suspenders, garters, and elastic woven goods.....	2
Oil, vegetable and composition.....	2	Roofing materials.....	5	Textile machinery and parts.....	2
Paper goods, not elsewhere specified.....	1	Saws.....	1	Upholstering materials, excelsior.....	2
Pens, fountain and stylographic.....	4	Scales and balances.....	1	Vinegar and cider.....	2
Photographs and graphophones.....	2	Shipbuilding, steel.....	1	Windmills.....	1
Photographic apparatus.....	2	Show cases.....	2	Window and door screens.....	1
Photographic materials.....	4	Smelting and refining, zinc.....	1	Wooden goods, not elsewhere specified.....	2
		Stamped ware, not elsewhere specified.....	1	Woolen goods.....	2

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

964,526	928,051	4,308,422	46,830	132,715	689,007	21,026,355	535,440	32,587,220	11,025,434	11,462	4,831	104	95	6,432	1,653	1
8,315	865	15,380		904	704	22,553	575	69,228	46,100	20			3	17		2
4,632	750	20,143		3,045	453	28,120	1,647	72,277	42,510	52				52		3
18,005	20,043	89,685	353	10,133	3,973	403,867	5,270	620,313	220,676	94			22	72	2	4
63,412	150,551	347,148		11,825	121,117	1,524,801	30,764	2,709,338	1,154,213	477	225	25		227	500	5
14,000	15,411	11,223		3,180	7,085	633,506	2,555	911,823	275,762	381				20		6
65,045	59,584	100,807		10,302	20,089	500,320	19,005	977,190	457,259	331	80			251		7
27,030	38,762	73,025		5,722	24,016	260,044	10,905	576,556	269,697	181	80			101		8
38,015	20,822	33,782		4,640	2,673	234,282	8,700	400,694	157,652	150				150		9
132,335	62,147	777,288	12,309	9,455	53,860	2,183,462	50,677	3,840,412	1,600,273	1,361	1,080	12		269	800	10
	1,353	17,906	08	1,375	137	13,158	197	41,976	28,621	5				5	13	11
	1,363	21,130		635	1,514	59,024	1,540	128,210	67,640	04				04		12
10,719	5,652	32,642		4,044	1,747	105,993	1,944	202,734	94,707	197	5			102		13
812	210	7,517		1,230	1,827	18,119	463	37,120	18,538	15				15		14
25,632	17,900	106,716	625	10,516	2,280	103,511	4,916	380,415	280,988	100				100		15
74,249	76,720	444,620	14,545	2,600	39,701	166,850	65,012	817,980	580,118	158				158		16
1,920		5,397		605	21,000	20,130	220	60,822	40,472	7				7		17
24,851	32,969	339,732		5,598	129,508	445,904	2,701	1,174,814	726,206	16				16		18
91,669	75,214	224,183		120	27,205	772,343	10,100	1,471,755	689,303	410	24			392		19
422,429	398,913	1,740,987	18,870	50,398	243,510	14,025,628	331,245	19,043,822	4,686,949	8,123	3,417	104	33	4,569	338	20

Jewelry.....	3	Patent medicines and compounds.....	2	Saddlery and harness.....	3
Liquors, malt.....	1	Photographs and graphophones.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	1
Lithographing.....	2	Photographic apparatus.....	1	Signs, other than electric.....	2
Locomotives, not made by railroad companies.....	1	Photographic materials, motion-picture projection films.....	1	Slaughtering and meat packing.....	2
Lumber, planing-mill products, not including planing mills connected with sawmills.....	5	Pickles and sauces.....	2	Surgical appliances.....	1
Malt.....	1	Pumps, not including power pumps.....	2	Textile machinery and parts.....	1
Models and patterns, not including paper patterns.....	2	Pumps, power, other than steam.....	1	Trunks and valises.....	1
Musical instruments and materials, not elsewhere specified.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Wirework, not elsewhere specified.....	1
				Wooden goods, not elsewhere specified.....	1

<sup>1</sup> Same number reported for one or more other months.



## MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		
					Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						

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

																	Dollars.
1	DES MOINES—All industries.....	379	10,359	236	705	1,416	917	7,085	No 7,959	Fe 6,239	7,967	5,956	1,846	134	31		43,686,558
2	Artificial stone products.....	5	32	7	4	1	20	No 35	Ja 6	38	38	265	2	1			123,670
3	Automobile bodies and parts.....	5	218	2	12	6	5	193	No 296	Ap 144	268	17					583,721
4	Automobile repairing.....	6	28	5	4	1	1	17	Je 18	Ja 14	17	17					29,141
5	Bookbinding and blank-book making.....	7	42	7	3	2	1	29	No 35	Mh 26	36	17	18	1			68,185
6	Bread and other bakery products.....	30	538	34	21	87	37	359	De 425	Ja 310	421	226	160	33	8		1,585,547
7	Brick and tile, terra-cotta, and fire-clay products.....	8	331	3	22	7	4	295	Au 401	De 104	382	381		1			1,344,196
8	Butter.....	4	92	1	7	9	11	64	Je 80	De 52	52	43	9				244,516
9	Cars and general shop construction and repairs by steam-railroad companies.....	3	257		9	8	3	237	No 248	Fe 226	247	246	1				208,652
10	Confectionery and ice cream.....	7	238	2	16	42	10	168	Jy 198	Ja 134	177	62	80	26			603,798
11	Copper, tin, and sheet-iron work.....	12	153	7	11	13	11	111	Ja 145	Mh 75	142	142					330,635
12	Dairymen's and poultrymen's supplies.....	3	77		8	9	9	51	Fe 78	Au 25	67	67					137,775
13	Flavoring extracts.....	3	12	2	1	1	1	8	Jy 12	De 5	13	11	2				69,058
14	Flour-mill and gristmill products.....	5	68	3	10	8	7	40	Oc 63	Fe 24	60	57	3				707,428
15	Food preparations, not elsewhere specified.....	4	12	2	2	2	1	7	My 11	Se 4	11	6	5				31,030
16	Foundry and machine-shop products.....	13	232	6	27	27	10	162			184	176		8			863,829
17	Machine shops.....	8	160	2	19	25	10	104	No 124	Mh 86	119	119					545,400
18	All other.....	5	72	4	8	2		58	No 76	My 49	65	57		8			318,429
19	Fur goods.....	4	140	4	8	21	8	99	Ja 124	Se 70	122	71	51				439,529
20	Furniture.....	4	135	1	8	14	2	110	De 119	Ja 100	119	114	5				342,768
21	Gloves and mittens, leather.....	3	195	3	14	42	9	127	Jy 139	Ja 99	136	51	84	1			400,877
22	Jewelry.....	5	28	6	2	4	1	15	Se 17	Ja 14	15	14	1				22,295
23	Lumber, planing-mill products, not including planing mills connected with saw-mills.....	10	285	4	21	61	10	180	Je 200	Ja 158	188	188					1,352,294
24	Marble and stone work, except slate.....	4	93	4	3	19	5	62	Jy 76	Ap 50	67	67					306,297
25	Mineral and carbonated waters.....	7	33	11	1	5	1	15	Au 28	Ja 9	18	14		4			160,036
26	Patent and proprietary medicines.....	18	257	7	23	41	41	145	Ja 156	My 132	141	55	86				790,901
27	Printing and publishing, book and job.....	44	554	35	63	105	39	312			358	246	103	8	1		981,545
28	Job printing.....	35	502	27	56	101	32	286	De 331	Ja 265	328	222	98	8			896,581
29	Book publishing and printing.....	4	25	5	2	3	6	9	Oc 11	Ap 7	11	7	3		1		26,546
30	Linotype work and typesetting.....	5	27	3	5	1	1	17	No 21	Fe 16	19	17	2				58,418
31	Printing and publishing, newspaper and periodicals.....	33	1,575	15	116	383	427	634			756	557	184	13	2		4,769,810
32	Printing and publishing.....	3	285		27	93	30	135	My 149	Fe 117	135	117	11	7			770,894
33	Printing, publishing, and job printing.....	8	1,174	7	64	250	363	490	De 615	Ja 428	609	436	165	6	2		3,825,362
34	Publishing without printing.....	22	116	3	25	40	34	9	Au 14	Je 6	12	4	8				172,644
35	Stoves and hot-air furnaces.....	5	317	1	19	45	22	230	Oc 285	Ja 158	270	270					1,278,100
36	Tobacco, cigars.....	12	81	12	4	5		60	Oc 65	Ja 49	65	44	20		1		68,905
37	All other industries *.....	106	4,336	59	265	445	232	3,335			3,597	2,517	1,023	39	18		25,843,140

\*All other industries embrace—

Agricultural implements.....	1	Chemicals.....	1	Glue, other than fish.....	1
Artificial flowers.....	1	Cleansing and polishing preparations.....	2	Grease, soap stock.....	1
Artificial limbs.....	1	Clothing, men's.....	2	Hair work.....	1
Awnings, tents, and sails.....	2	Clothing, women's, suits, skirts, and cloaks.....	1	Hand stamps.....	1
Boxes, cigar.....	1	Coffee, roasting and grinding.....	2	Hats and caps, other than felt, straw, and wool.....	2
Boxes, set-up paper boxes.....	1	Coffins, burial cases, and undertakers' goods.....	1	Ice, manufactured.....	1
Brass and bronze products.....	2	Cooperage, hogsheads and barrels.....	2	Iron and steel, welding.....	2
Brooms, from broom corn.....	5	Druggists' preparations.....	2	Knit goods.....	1
Carpets, rag.....	1	Electroplating.....	2	Lithographing.....	2
Cars and general shop construction and repairs by electric-railroad companies.....	1	Furnishing goods, men's, neckwear.....	1	Lubricating greases.....	2
Cash registers and calculating machines.....	1	Gas, illuminating and heating.....	1	Lumber and timber products.....	1
Cement.....	1	Gas machines.....	1	Mattresses and spring beds, not elsewhere specified.....	2
		Glass, cutting, staining, and ornamenting.....	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.

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

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

Dollars. 2,304,110	Dollars. 3,132,968	Dollars. 7,558,837	Dollars. 330,336	Dollars. 302,377	Dollars. 1,341,622	Dollars. 31,687,203	Dollars. 1,003,269	Dollars. 59,830,954	Dollars. 20,540,392	17,341	6,590	1,750	40	8,961	5,069	1
16,275	2,545	26,380	.....	2,030	670	50,271	1,795	107,236	55,170	82	.....	.....	5	57	.....	2
24,935	23,400	211,479	.....	5,000	9,005	224,058	6,465	574,246	343,723	294	150	.....	.....	144	.....	3
6,300	1,020	24,090	.....	5,030	358	16,875	2,740	31,450	61,835	26	.....	.....	.....	26	.....	4
6,765	1,319	22,574	.....	4,280	204	22,658	785	37,023	64,450	31	.....	.....	.....	31	.....	5
55,780	180,816	323,623	.....	22,277	60,889	1,685,272	50,526	2,943,716	1,207,918	295	48	.....	3	244	.....	6
48,709	17,076	382,674	.....	17,081	10,715	87,645	220,705	1,002,393	685,043	1,529	995	.....	.....	534	25	7
39,683	19,697	65,506	.....	5,286	12,780	1,862,738	15,023	2,252,730	374,069	146	55	.....	.....	01	.....	8
25,320	12,352	274,025	.....	8,043	8,043	141,804	14,209	474,316	318,153	120	68	.....	.....	52	.....	9
50,405	57,815	176,450	22,767	9,425	35,200	916,792	21,393	1,510,456	572,271	513	150	.....	.....	363	42	10
34,186	25,828	137,340	.....	4,042	39,951	276,488	4,445	662,520	381,587	71	.....	.....	9	62	.....	11
20,540	16,440	47,935	.....	2,014	2,372	157,502	1,713	330,280	171,065	36	.....	.....	.....	36	.....	12
2,080	1,597	7,316	.....	2,700	3,734	36,937	856	62,887	25,094	10	.....	.....	.....	10	.....	13
34,813	12,799	42,008	.....	1,058	3,768	1,311,107	17,441	1,487,513	158,965	615	.....	.....	.....	615	.....	14
.....	2,086	7,513	.....	1,899	57	41,484	1,374	64,565	21,707	10	.....	.....	.....	10	.....	15
71,785	43,161	210,963	.....	7,502	20,086	406,435	10,409	676,288	559,442	350	.....	.....	7	343	.....	16
44,670	43,161	131,070	.....	5,565	10,618	288,410	6,629	703,305	408,257	274	.....	.....	7	267	.....	17
27,115	.....	85,883	.....	1,937	15,468	118,016	3,780	272,981	151,185	76	.....	.....	.....	76	.....	18
18,328	23,844	117,944	.....	3,800	7,426	427,858	4,481	839,670	407,331	36	.....	.....	.....	36	.....	19
18,622	16,432	123,881	.....	4,720	7,420	233,210	6,487	476,377	237,730	812	545	150	.....	117	.....	20
46,697	46,702	100,369	.....	2,700	4,516	482,083	2,322	765,104	283,499	55	30	.....	.....	25	.....	21
2,400	750	13,495	.....	2,899	340	4,311	204	44,417	39,002	6	.....	.....	.....	6	.....	22
62,502	127,429	187,345	.....	5,030	45,532	710,877	13,698	1,462,703	739,128	490	220	.....	.....	270	.....	23
13,189	59,357	100,297	.....	3,185	5,026	184,275	5,015	438,232	248,042	176	.....	.....	.....	176	.....	24
1,800	5,573	15,072	.....	2,126	9,089	30,484	1,543	132,709	50,632	20	.....	.....	.....	20	.....	25
67,111	105,450	107,116	.....	7,544	60,656	414,424	6,084	1,479,227	1,058,710	215	185	.....	.....	30	93	26
147,730	116,595	306,216	15,707	36,617	9,080	406,471	12,789	1,438,131	959,871	341	.....	.....	.....	341	.....	27
141,008	109,978	276,847	11,745	34,401	9,357	433,841	11,040	1,352,287	887,496	327	.....	.....	.....	327	.....	28
2,800	5,242	9,854	4,022	1,252	82	7,378	283	42,521	34,890	7	.....	.....	.....	7	.....	29
3,922	1,375	19,514	.....	874	541	4,252	1,466	43,323	37,605	7	.....	.....	.....	7	.....	30
377,456	952,039	751,354	180,239	46,425	177,308	1,839,084	43,042	7,877,532	5,094,506	1,388	315	.....	.....	1,073	150	31
92,372	149,546	166,897	.....	8,206	74,931	443,272	8,201	1,408,170	956,607	325	.....	.....	.....	325	.....	32
241,823	689,247	578,159	4,275	28,157	102,374	1,352,409	35,561	6,001,934	4,613,964	1,059	315	.....	.....	744	150	33
43,261	113,846	6,298	175,964	9,972	503	43,403	90	467,428	423,035	4	.....	.....	.....	4	.....	34
77,933	157,505	319,502	1,475	36,680	16,689	449,416	10,578	1,296,884	806,890	317	.....	.....	.....	317	.....	35
4,300	4,300	53,563	.....	7,137	22,626	100,150	965	214,351	113,230	11	.....	.....	.....	11	.....	36
1,027,906	1,097,742	3,390,522	110,088	113,391	759,893	10,057,483	1,116,142	30,774,100	10,600,470	9,357	3,829	1,600	16	3,012	4,759	37

Millinery and lace goods, not elsewhere specified... 2  
Models and patterns, not including paper patterns... 2  
Mucilage, paste, and other adhesives, not elsewhere specified... 1  
Oil, linseed... 1  
Optical goods... 1  
Paints... 1  
Perfumery and cosmetics... 2  
Photo-engraving... 1  
Photographic materials... 2  
Pickles and sauces... 1  
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments... 1

Printing materials... 1  
Pumps, power, other than steam... 1  
Refrigerators... 1  
Roofing materials... 2  
Rubber tires, tubes, and rubber goods, not elsewhere specified... 3  
Saddlery and harness... 4  
Sausage, not made in slaughtering and meat-packing establishments... 1  
Shirts... 1  
Signs and advertising novelties... 5  
Slaughtering and meat packing... 1  
Soap... 1

Stationary goods, not elsewhere specified... 2  
Stereotyping and electrotyping... 1  
Stoves, gas and oil... 1  
Structural ironwork, not made in steel works or rolling mills... 3  
Suspenders, garters, and elastic woven goods... 1  
Tools, machinists'... 1  
Trunks and valises... 1  
Washing machines and clothes wringers... 1  
Windmills... 2  
Wirework, not elsewhere specified... 1  
Wood, turned and carved... 1

<sup>3</sup> Same number reported for one or more other months.



## MANUFACTURES—IOWA.

TABLE 29.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

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

																Dollars.
1	SIoux CITY—All industries.....	251	9,224	192	440	1,391	452	6,749	Ja 7,068	My 6,419	7,022	5,897	1,114	7	4	44,920,426
2	Artificial stone products.....	3	14	2	3	1	1	8	Se 21	De 0	6	6	.....	.....	.....	55,092
3	Automobile bodies and parts.....	6	57	8	3	1	1	44	Jy <sup>3</sup> 51	Mh 30	43	39	3	1	.....	114,144
4	Automobile repairing.....	33	185	40	14	6	10	115	Se 138	De 98	119	114	5	.....	.....	226,987
5	Bread and other bakery products.....	24	400	27	31	47	32	323	No 366	Ap 288	361	227	133	.....	1	1,017,791
6	Brooms, from broom corn.....	3	44	4	2	.....	.....	38	An <sup>3</sup> 45	Ja <sup>3</sup> 32	41	27	17	.....	.....	39,056
7	Cars and general shop construction and repairs by steam-railroad companies.....	3	769	.....	32	12	8	717	De 761	Au 671	739	731	8	.....	.....	1,091,551
8	Coffee, roasting and grinding.....	4	85	1	10	34	1	39	Oc 46	Jy 33	41	12	29	.....	.....	420,438
9	Confectionery and ice cream.....	11	249	13	25	18	4	189	.....	.....	229	65	162	1	1	741,450
10	Confectionery.....	7	215	10	17	15	3	170	No 286	My 124	212	51	100	.....	1	562,941
11	Ice cream.....	4	34	3	8	3	1	19	Jy <sup>3</sup> 24	Ja 15	17	14	2	1	.....	178,516
12	Copper, tin, and sheet-iron work.....	10	191	7	29	16	8	131	Oc 163	Mh 108	154	150	4	.....	.....	613,554
13	Druggists' preparations.....	3	139	.....	23	12	6	89	Jy 106	De 66	81	78	6	.....	.....	782,696
14	Flour-mill and gristmill products.....	5	69	.....	11	8	4	46	De 59	Jy 35	60	59	1	.....	.....	1,259,439
15	Food preparations, not elsewhere specified.....	3	16	3	2	.....	.....	11	My 14	Jo 8	10	5	5	.....	.....	23,242
16	Poundry and machine-shop products.....	9	117	5	11	5	4	92	.....	.....	105	103	2	.....	.....	336,014
17	Machine shops.....	6	59	4	5	4	2	44	Jy 48	De 39	44	43	1	.....	.....	137,463
18	All other.....	3	58	1	6	1	2	48	De 60	Au 37	61	60	1	.....	.....	198,551
19	Fur goods.....	5	30	7	3	.....	3	17	Ja <sup>3</sup> 20	Au 13	15	5	9	.....	1	56,274
20	Lumber, planing-mill products, not including planing mills connected with sawmills.....	5	216	2	20	22	13	159	Au 191	Ja 110	165	161	3	1	.....	873,926
21	Mineral and soda waters.....	4	39	1	11	8	4	15	An 25	Ja 7	17	17	.....	.....	.....	201,314
22	Optical goods.....	3	15	2	2	1	2	8	Ja <sup>3</sup> 6	Se <sup>3</sup> 7	7	6	1	.....	.....	85,583
23	Patent medicines and compounds.....	4	16	2	2	6	2	4	Ap <sup>3</sup> 6	Jy <sup>3</sup> 3	4	4	.....	.....	.....	43,752
24	Printing and publishing, book and job.....	17	138	15	15	7	11	90	.....	.....	98	70	27	1	.....	316,623
25	Job printing.....	14	130	13	15	7	9	86	Ja 90	Ap <sup>3</sup> 84	93	65	27	1	.....	297,827
26	All other.....	3	8	2	.....	2	.....	4	(4)	(4)	5	5	.....	.....	.....	18,796
27	Printing and publishing, newspapers and periodicals.....	11	449	4	30	105	40	261	No 280	Au 242	278	242	34	2	.....	977,503
28	Saddlery and harness.....	6	40	4	4	6	.....	35	Mh <sup>3</sup> 39	No 23	36	33	3	.....	.....	355,220
29	Slaughtering and meat packing.....	5	4,280	2	39	905	217	3,117	Ja 3,459	Se 2,646	3,229	2,828	401	.....	.....	23,431,543
30	Tobacco, cigars.....	9	40	10	.....	1	.....	29	Ja 36	Fe <sup>3</sup> 26	38	23	14	1	.....	28,673
31	All other industries*.....	65	1,566	33	118	171	72	1,172	.....	.....	1,140	892	247	.....	1	11,798,558

\*All other industries embrace—

Automobiles.....	1	Cars, steam-railroad, not including operations of railroad companies.....	1	Electrical machinery, apparatus, and supplies.....	1
Awnings, tents, and sails.....	2	Cleaning preparations.....	1	Electroplating.....	1
Boxes, cigar.....	1	Clothing, men's.....	3	Fertilizers.....	1
Boxes, wooden packing, except cigar boxes.....	1	Clothing, women's, suits, skirts, and cloaks.....	1	Flavoring extracts.....	2
Brick.....	2	Coffins, burial cases, and undertakers' goods.....	1	Gas, illuminating and heating.....	1
Butter.....	2	Condensed milk.....	1	Gloves and mittens, cloth, not including gloves made in textile mills.....	1
Carpets, rag.....	1	Cooperage, hogsheads and barrels.....	1	Grease, soap stock.....	1
Cars and general shop construction and repairs by electric-railroad companies.....	1	Cordage and twine.....	1	Hand stamps.....	1

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

																		Dollars.
1	BOONE.....	39	468	41	23	10	25	369	No 381	Ap 352	379	259	113	4	3	.....	.....	1,384,985
2	BURLINGTON.....	97	2,738	82	163	152	87	2,274	De 2,487	Ja 2,024	2,485	1,683	758	20	24	.....	.....	8,697,928
3	CEDAR RAPIDS.....	208	8,037	180	316	1,389	468	6,284	Ja 6,840	Mh 5,659	7,099	5,905	1,145	15	4	.....	.....	39,055,639
4	CLINTON.....	119	4,184	82	190	319	141	3,452	No 3,727	Mh 3,072	3,717	3,146	557	12	2	.....	.....	17,072,603
5	COUNCIL BLUFFS.....	111	2,471	89	163	212	116	1,891	Se 2,065	Ja 1,689	2,095	1,743	350	2	.....	.....	.....	7,222,405
6	DUBUQUE.....	131	7,261	106	254	472	282	6,147	No 6,770	Ja 5,587	6,837	5,508	1,179	20	40	.....	.....	23,913,326
7	FORT DODGE.....	80	1,966	63	93	110	86	1,605	No 1,988	Fe 1,198	1,047	1,546	399	2	.....	.....	.....	7,673,825
8	FORT MADISON.....	34	1,206	35	30	48	64	1,029	De 1,180	Ja 825	1,206	958	246	.....	2	.....	.....	8,232,600
9	IOWA CITY.....	40	517	50	56	53	30	322	Se 390	Ja 251	430	298	141	.....	.....	.....	.....	1,905,336
10	KROOK.....	71	2,399	53	134	490	124	1,598	No 1,793	Ja 1,478	1,723	1,369	327	18	9	.....	.....	8,058,798
11	MARSHALLTOWN.....	62	1,733	53	138	120	75	1,338	Se 1,559	Fe 1,170	1,590	1,398	188	4	.....	.....	.....	6,373,708
12	MASON CITY.....	59	2,731	42	88	168	66	2,367	Ja 2,704	Fe 1,692	2,583	2,439	123	19	2	.....	.....	15,068,194
13	MUSCATINE.....	146	3,055	154	118	166	95	2,522	De 2,834	Ja 2,180	2,892	2,211	599	28	54	.....	.....	8,812,354
14	OTTUMWA.....	94	3,074	75	105	236	57	2,601	De 2,867	Ap 2,376	2,872	2,333	523	10	6	.....	.....	20,885,513
15	WATERLOO.....	161	5,839	116	335	387	381	4,620	Mh 5,317	Au 3,135	5,418	4,782	571	64	1	.....	.....	21,612,376

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).



## MANUFACTURES—IOWA.

33

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
1,262,528	2,480,419	8,946,731	233,920	178,500	1,100,262	123,946,067	1,314,757	146,393,134	21,131,710	14,572	7,873	765	35	5,899	2,550	1	
4,670	1,200	9,924	.....	955	119	14,827	483	30,688	15,378	61	.....	.....	.....	61	.....	2	
3,500	1,072	48,056	.....	4,793	1,140	65,978	2,059	164,842	96,805	52	.....	.....	.....	52	.....	3	
27,770	17,733	172,806	3,729	23,834	1,634	203,796	9,036	564,658	351,826	176	.....	.....	.....	176	.....	4	
61,651	149,354	292,965	.....	16,555	39,087	1,228,517	48,725	2,115,042	837,800	528	160	.....	.....	368	.....	5	
4,240	.....	33,218	.....	2,000	494	80,147	584	135,615	54,884	18	.....	.....	.....	18	.....	6	
83,145	20,321	1,099,108	.....	4,267	.....	297,225	27,887	1,630,887	1,205,775	1,394	545	375	30	444	.....	7	
13,515	19,153	33,954	.....	6,794	3,018	1,282,212	2,595	1,410,641	125,834	91	.....	.....	.....	91	.....	8	
52,369	10,758	135,107	.....	8,604	89,498	996,257	17,581	1,100,391	388,553	457	110	50	.....	297	75	9	
32,569	6,280	109,755	.....	4,800	88,302	516,190	9,552	820,795	295,047	266	110	.....	.....	156	75	10	
19,800	4,478	25,352	.....	3,504	1,196	180,061	8,029	279,596	91,506	191	.....	50	.....	141	.....	11	
44,850	32,089	135,341	65	3,543	9,800	269,142	6,529	337,451	561,780	90	40	.....	.....	56	.....	12	
87,605	24,270	128,282	.....	5,810	50,025	920,212	5,972	1,317,016	390,832	69	.....	.....	.....	69	.....	13	
35,452	18,070	63,714	750	213	11,023	1,869,557	24,781	2,050,918	156,580	1,002	600	.....	.....	402	.....	14	
1,125	.....	10,353	.....	604	22	67,471	1,578	77,132	18,093	14	.....	.....	.....	14	.....	15	
23,555	9,799	124,114	.....	4,167	5,120	100,133	6,934	328,882	221,815	182	.....	.....	.....	182	.....	16	
10,255	5,839	62,047	.....	2,880	2,891	24,508	3,514	145,284	120,292	50	.....	.....	.....	50	.....	17	
13,400	3,990	62,067	.....	1,287	2,235	75,025	3,420	180,598	101,553	132	.....	.....	.....	132	.....	18	
11,350	4,680	14,430	400	5,647	1,492	77,455	977	192,710	114,278	16	10	.....	.....	6	.....	19	
60,776	36,463	214,292	74	241	24,128	373,213	15,164	805,121	410,754	632	125	.....	5	502	214	20	
28,274	11,633	24,121	.....	1,550	15,702	129,126	1,510	244,597	113,901	42	.....	.....	.....	42	.....	21	
6,015	3,090	9,435	.....	2,394	697	27,433	350	63,843	36,000	9	.....	.....	.....	9	.....	22	
953	6,455	6,129	.....	1,921	2,272	20,808	207	40,613	10,568	59	.....	.....	.....	59	.....	23	
33,894	18,089	97,832	10,255	10,901	2,123	129,102	5,551	376,394	241,741	142	.....	.....	.....	142	1	24	
33,894	16,929	89,831	9,355	10,847	2,004	128,024	5,261	353,074	219,769	140	.....	.....	.....	140	1	25	
.....	2,160	8,001	900	554	119	1,078	260	23,320	21,982	2	.....	.....	.....	2	.....	26	
82,892	154,880	341,042	5,412	24,247	17,023	712,769	9,838	1,705,168	982,561	468	125	.....	.....	343	160	27	
4,950	2,800	37,442	.....	5,043	4,437	257,500	1,213	364,363	105,671	27	.....	.....	.....	27	.....	28	
218,581	1,592,790	4,477,240	211,784	3,940	449,241	105,324,344	561,974	116,085,563	10,202,185	4,877	3,165	340	.....	1,372	1,590	29	
370,996	339,623	1,413,766	1,451	43,487	411,086	9,747,892	592,675	14,733,996	4,423,319	4,162	2,993	.....	.....	4	510	30	

Hats and caps, other than felt, straw, and wool.....	2	Oil, linseed.....	1	Shirts.....	1
Ice, manufactured.....	2	Paints.....	2	Signs, other than electric.....	1
Instruments, optical.....	1	Pens, fountain and stylographic.....	2	Soap.....	1
Jewelry.....	2	Perfumery and cosmetics.....	1	Structural ironwork, not made in steel works or rolling mills.....	3
Marble and stone work, except slate.....	2	Photo-engraving.....	1	Tools, machinists'.....	1
Mattresses and spring beds, not elsewhere specified.....	2	Pickles and sauces.....	1	Trunks and valises.....	1
Millinery, trimmed hats and hat frames.....	1	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.....	2	Vinegar and cider.....	1
Models and patterns, not including paper patterns.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	2		
Musical instruments and materials, not elsewhere specified.....	1				

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

79,792	36,264	375,368	1,064	13,552	61,916	608,473	30,524	1,540,837	850,900	437	140	15	4	278	.....	1
397,492	350,628	2,169,579	2,830	28,390	626,107	6,559,673	222,550	12,000,058	5,307,835	4,875	3,193	46	11	1,025	243	2
1,184,338	2,460,842	6,474,326	144,002	112,353	2,201,371	71,232,932	832,997	92,118,386	20,052,467	19,814	2,530	2,010	17	15,257	2,245	3
615,808	628,003	4,089,984	5,247	34,513	1,490,891	18,710,369	634,764	30,321,143	10,976,010	9,894	5,426	3,372	31	1,055	7,202	4
413,577	588,006	2,473,553	8,373	30,806	186,057	5,262,016	270,690	10,610,664	5,068,358	3,978	1,696	63	58	2,161	141	5
772,675	917,589	6,024,031	59,698	167,218	1,023,953	19,521,899	420,089	34,277,085	14,325,197	10,861	3,807	956	20	6,018	3,582	6
252,509	384,185	1,395,115	500	33,316	137,469	6,910,255	297,421	10,884,039	3,680,360	4,178	1,713	737	280	1,448	947	7
144,876	361,747	987,397	500	6,770	183,183	2,531,107	111,756	4,836,291	2,193,368	3,527	178	.....	65	3,284	.....	8
88,867	93,201	268,014	5,025	14,490	15,526	862,291	63,519	1,767,313	841,503	880	.....	1	.....	619	118	9
336,640	813,331	1,549,192	2,589	13,634	512,325	11,534,574	381,933	17,554,810	5,638,309	7,527	2,197	.....	16	5,314	8	10
414,205	274,542	1,509,188	6,835	27,792	124,244	4,792,975	183,679	8,642,468	3,665,814	2,578	928	.....	.....	1,650	466	11
279,586	367,152	2,859,093	18,063	24,649	310,028	21,245,848	1,808,601	26,512,534	6,458,085	18,078	13,472	2,000	.....	2,606	12,456	12
381,600	275,038	2,101,945	128,521	28,143	146,652	5,637,924	150,737	10,753,750	5,056,089	4,162	3,038	.....	53	1,071	286	13
350,586	372,000	2,877,232	12,021	236,855	787,395	36,108,262	892,849	45,020,524	8,528,413	5,506	3,665	.....	4	1,840	1,725	14
810,519	837,482	5,791,251	116,751	92,526	260,297	22,747,406	645,208	35,481,225	12,088,611	9,910	3,355	160	392	6,003	479	15

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> Same number reported throughout the year.