MANUFACTURES—OHIO.

EXPLANATION OF TERMS.

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

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

Period covered.—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GENERAL STATISTICS.

General character of the state.—Ohio has a gross area of 41,040 square miles, of which 40,740 represent land surface. The inhabitants of the state in 1900 numbered 4,157,545; in 1910, 4,767,121; and in 1920, 5,759,394. In total population Ohio ranked fourth among the states in 1920. The number of inhabitants per square mile in 1910 was 117, the corresponding figure for 1920 being 141.4.

In 1920 there were 50 cities in the state having more than 10,000 inhabitants, for 48 of which manufacturing statistics are shown. Statistics for Cleveland Heights and East Youngstown can not be shown without the possibility of disclosing the operations of individual establishments. The combined population of these 48 cities in that year was 3,137,372, which formed 54.5 per cent of the total population for Ohio; and in 1919, 79.6 per cent of the state's manufactured products were reported from these cities.

Importance and growth of manufactures (Table 1).—The large increases in salaries and wages, cost of materials, and 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 88 counties in 1919 with those of 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 46.

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).—Each of the 48 cities for which comparative figures are presented in this table shows an increase in value of products from 1914 to 1919. Increases in the total number of wage earners are also shown for all such cities, except Bellaire, East Cleveland, East Liverpool, Findlay, Marietta, Newark, Steubenville, Warren, and Zanesville.

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 48 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, 85.4 per cent were in the 48 cities, while of the male wage earners only 77.9 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 Ohio. In that year 13.7 per cent of the wage earners were included in the group "48 and under" as against 40.5 per cent in 1919. In 1914, the "60" and "Over 60" groups constituted 23.3 per cent of the total wage earners as compared with 12.4 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, 91.6 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 23.5 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 8.4 per cent of the total number of manufacturing establishments in the state, but reported 76.5 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. Corporations owned 42 per cent of the manufacturing establishments in the state in 1919, and reported 92.9 per cent of the average number of wage earners and 93.9 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 229,605, or 51.1 per cent, and the value of products $3,188,836,309, or 199.1 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 48 cities in 1919 represented 65.3 per cent of the total for the state. They reported in that year 79 per cent of the average number of wage earners and 79.6 per cent of the value of products. These proportions do not differ materially from those of 1914.

Principal industries in the nine cities of 50,000 inhabitants or more in 1920, with per cent of total for state (Table 16).—This table shows for Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, and Youngstown industries of most importance 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 904,417 horsepower, or 45.4 per cent. This increase is due chiefly to the gain of 676,887, or 240.9 per cent, in the use of rented electric power. Of the total horsepower in 1914, 85.9 per cent represented owned power and 14.1 per cent rented. The corresponding proportions for 1919 were 66.9 per cent and 33.1 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, and by manufacturing enterprises in the 48 cities having 10,000 inhabitants or more. In 1919 four industries combined—coke, not including gashouse coke; iron and steel, steel works and rolling mills; brick and tile, terra-cotta, and fire-clay products; and rubber tires, tubes, and rubber goods, not elsewhere specified—consumed 61.7 per cent of the bituminous coal, using more than a million tons each. Iron and steel blast furnaces consumed 89.6 per cent of the coke. The statistics indicate the diminishing use of gas as fuel for manufacturing in Ohio.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE.[1]			
	1919	1914	1909	1904	1899	1914–1919	1909–1914	1904–1909	1899–1904
Number of establishments	16,125	15,658	15,138	13,785	13,868	3.0	3.4	9.8	—0.6
Persons engaged	882,918	606,807	523,004	417,946	(2)	45.5	16.0	25.1	.....
Proprietors and firm members	12,823	13,624	14,719	13,657	(2)	—5.9	—7.4	7.8	.....
Salaried employees	139,362	82,748	61,351	39,991	28,109	68.4	34.9	53.4	42.3
Wage earners (average number)	730,733	510,435	446,934	364,298	308,109	43.2	14.2	22.7	18.2
Primary horsepower	2,897,497	1,993,080	1,583,155	1,116,932	783,665	44.7	26.5	41.7	42.5
Capital	$3,748,743,996	$1,677,551,633	$1,300,732,732	$856,988,830	$570,908,968	123.5	29.0	51.8	50.1
Salaries and wages	1,218,366,093	423,188,649	317,597,403	225,864,293	164,579,020	187.2	33.6	40.6	37.2
Salaries	273,714,359	105,264,836	72,147,499	43,434,868	28,151,441	160.0	45.9	66.1	54.3
Wages	944,651,734	317,923,813	245,449,904	182,429,425	136,427,579	197.1	29.5	34.5	33.7
Paid for contract work	17,609,025	5,437,438	6,717,474	5,377,027	(2)	223.8	—19.1	24.9	.....
Rent and taxes	195,393,167	37,433,863	29,413,298	[3] 8,016,126	(2)	422.0	27.3	.....	.....
Cost of materials	2,911,947,871	1,020,782,015	824,201,947	527,636,585	409,302,501	185.3	23.8	56.2	28.9
Value of products	5,100,308,728	1,782,808,279	1,437,935,817	960,811,857	748,670,855	186.1	24.0	49.7	28.3
Value added by manufacture [4]	2,188,360,857	762,026,264	613,733,870	433,175,272	339,368,354	187.2	24.2	41.7	27.6

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

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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horsepower.
		Average number.	Wages.					
The state	16,125	730,733	$944,051,734	$195,393,167	$2,911,947,871	$5,100,308,728	$2,188,360,857	2,897,497
Adams	64	326	218,875	40,184	697,277	1,276,750	579,473	1,985
Allen	190	7,621	8,407,828	2,461,062	28,588,357	48,238,716	19,650,359	20,814
Ashland	70	1,851	1,646,903	277,182	5,446,626	11,986,871	6,540,245	4,100
Ashtabula	145	5,880	7,642,792	1,488,233	16,212,394	31,841,390	15,628,996	14,041
Athens	65	583	539,566	91,915	2,723,929	4,041,343	1,317,414	3,176
Auglaize	87	2,228	1,807,995	343,938	5,815,664	10,041,459	4,225,795	6,442
Belmont	189	5,643	7,256,992	974,467	23,925,038	37,103,142	13,178,104	30,245
Brown	48	322	218,229	37,009	1,059,830	1,591,791	531,961	1,202
Butler	224	15,518	19,533,588	11,379,910	62,603,049	115,174,575	52,571,526	90,520
Carroll	38	827	931,043	65,039	1,586,706	3,271,562	1,684,856	3,967
Champaign	68	931	1,020,397	135,864	4,681,918	7,156,056	2,474,138	3,312
Clark	238	12,813	13,923,412	2,207,962	36,394,482	71,839,890	35,445,408	23,237
Clermont	61	961	676,870	245,351	2,720,761	4,474,226	1,753,465	2,211
Clinton	71	538	550,634	32,114	1,125,470	2,432,463	1,306,993	2,122
Columbiana	215	12,663	15,537,097	1,498,751	28,104,257	61,100,183	32,995,926	34,442
Coshocton	84	2,510	2,233,692	266,835	4,766,947	9,754,782	4,987,835	7,200
Crawford	118	3,626	4,394,876	291,414	7,944,045	16,425,704	8,481,659	9,060
Cuyahoga	3,132	167,630	225,601,354	49,380,487	649,933,368	1,158,921,941	508,988,573	507,706
Darke	105	495	381,009	82,345	2,163,968	3,016,935	852,967	1,792
Defiance	72	1,354	1,433,567	183,660	3,280,928	6,069,876	2,788,948	4,394
Delaware	70	892	706,879	64,019	2,015,104	4,087,530	2,072,426	3,206
Erie	166	4,448	4,705,544	944,892	13,233,658	23,720,637	10,486,979	23,310
Fairfield	89	3,111	3,189,723	506,746	9,404,597	16,203,280	6,798,683	7,000
Fayette	35	435	331,465	150,561	2,312,097	3,559,719	1,247,622	1,475
Franklin	774	31,573	37,446,743	6,961,986	125,465,722	208,347,572	82,881,850	88,411
Fulton	46	564	569,966	95,338	5,399,008	7,365,405	1,966,397	1,955
Gallia	32	134	88,822	8,261	733,465	965,521	232,056	966
Geauga	23	112	99,404	110,539	472,193	741,222	269,029	734
Greene	64	1,246	1,071,117	128,439	5,864,039	8,415,359	2,551,320	5,859
Guernsey	68	2,477	3,645,575	214,289	6,800,667	13,065,344	6,264,677	6,361
Hamilton	2,466	88,912	89,622,629	27,166,595	424,443,583	688,530,229	264,086,646	185,507
Hancock	106	2,116	2,116,555	319,040	7,773,206	11,911,268	4,138,062	6,709
Hardin	81	1,041	1,088,719	129,408	2,455,605	4,867,243	2,411,638	6,498
Harrison	47	116	125,075	7,002	570,302	896,294	325,992	1,103
Henry	59	288	219,359	37,520	907,772	1,432,852	525,080	1,596
Highland	92	953	734,478	213,477	3,538,825	6,096,384	2,557,559	4,643
Hocking	42	1,032	1,146,769	45,425	1,487,175	3,360,995	1,873,820	4,981
Holmes	47	265	262,967	29,733	858,667	1,440,907	582,240	1,662
Huron	104	1,846	2,121,050	152,577	4,251,288	8,432,221	4,180,933	7,500
Jackson	65	1,604	1,757,259	289,110	4,536,318	7,542,583	3,006,265	10,820
Jefferson	104	7,054	12,232,974	4,009,740	37,742,599	61,792,420	24,049,821	97,838
Knox	56	1,877	2,478,317	349,586	4,232,209	8,300,851	4,068,642	4,481
Lake	50	2,183	3,325,931	860,741	5,516,564	14,537,325	9,020,761	12,553
Lawrence	67	2,587	3,105,744	648,595	11,896,625	18,704,695	6,808,070	24,263
Licking	118	5,550	5,712,763	518,669	10,549,781	20,975,892	10,426,111	12,867
Logan	86	1,139	1,402,370	79,937	3,388,169	5,693,910	2,305,741	3,810
Lorain	183	17,352	30,209,276	5,851,759	79,190,393	148,134,011	68,943,618	168,318
Lucas	714	44,713	56,909,816	10,946,699	179,424,363	305,091,520	125,667,157	101,793
Madison	35	218	186,945	28,689	1,227,739	1,771,191	543,452	988
Mahoning	333	32,967	62,608,687	7,401,472	223,863,994	344,207,078	120,343,084	493,471
Marion	98	4,395	5,128,980	895,067	11,578,948	22,627,945	11,048,997	11,752
Medina	53	1,078	1,956,871	495,204	4,553,627	10,107,344	5,553,717	11,140
Meigs	40	656	842,517	33,941	913,354	2,044,465	1,131,111	3,185
Mercer	72	1,241	1,068,220	113,434	3,763,552	6,758,715	2,995,163	2,838
Miami	157	5,060	4,958,307	1,067,407	17,250,032	31,368,127	14,118,095	12,199
Monroe	52	137	89,999	30,367	573,095	833,985	260,890	858
Montgomery	670	33,085	41,844,580	7,495,794	85,140,401	185,759,071	100,618,670	70,664
Morgan	28	270	217,287	40,101	829,255	1,673,607	844,352	1,215
Morrow	25	218	217,267	62,026	873,814	1,407,441	533,627	976
Muskingum	162	6,295	6,823,034	474,750	19,031,589	33,553,813	13,922,224	16,532
Noble	33	77	63,115	6,852	635,406	803,664	168,258	768
Ottawa	47	1,272	1,547,334	387,023	2,317,930	5,541,681	3,223,851	14,463
Paulding	42	178	266,313	96,627	1,178,578	1,974,577	795,999	1,697
Perry	56	1,457	1,551,281	100,743	1,643,925	3,856,168	2,212,243	5,319
Pickaway	53	554	367,079	52,814	1,710,478	2,662,643	952,165	4,025
Pike	22	43	35,376	2,411	426,306	538,527	112,221	731
Portage	97	3,052	3,667,454	355,625	8,646,115	17,414,954	8,768,839	11,919
Preble	72	291	209,125	18,514	534,566	800,517	265,951	2,716
Putnam	76	529	475,456	94,310	1,964,981	3,116,195	1,151,214	3,309
Richland	191	7,319	8,943,809	2,211,821	26,275,253	47,628,663	21,353,410	20,194
Ross	58	1,718	1,882,786	129,861	4,769,464	8,277,376	3,507,912	5,727
Sandusky	100	4,076	4,155,577	361,440	9,723,224	19,671,461	9,948,237	11,393
Scioto	92	9,096	11,327,501	1,690,120	26,917,991	50,398,501	23,480,510	37,095
Seneca	178	3,837	4,121,052	809,297	14,630,337	24,532,788	9,902,451	15,216
Shelby	65	2,300	2,016,021	497,632	5,230,870	10,178,402	4,947,532	4,157
Stark	584	34,182	47,876,368	5,547,409	113,639,983	222,309,894	108,669,911	132,137
Summit	405	71,050	102,708,324	26,304,107	333,933,524	595,108,643	261,176,119	211,778
Trumbull	254	15,168	25,122,447	3,269,016	78,531,337	124,743,657	46,212,320	125,592
Tuscarawas	218	7,751	10,548,477	832,112	22,459,994	39,197,409	16,737,415	30,037
Union	41	439	361,113	31,912	3,774,806	4,427,836	653,030	1,429
Van Wert	51	586	600,725	74,553	1,561,717	2,827,422	1,265,705	4,253
Vinton	18	137	161,561	8,789	143,142	527,627	384,485	1,095
Warren	71	1,994	1,882,464	461,155	5,890,381	10,993,914	5,103,533	9,152
Washington	105	2,174	2,108,587	485,997	5,912,766	11,225,910	5,313,144	7,090
Wayne	120	1,910	2,284,439	286,190	8,419,871	13,987,355	5,567,484	8,153
Williams	77	731	714,029	40,075	3,075,138	4,667,462	1,592,324	2,229
Wood	82	2,146	2,743,019	669,363	12,179,569	18,423,158	6,243,589	29,479
Wyandot	54	506	525,600	23,142	1,381,911	2,386,698	1,004,787	2,339

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

INDUSTRY.	Number of establishments.	WAGE EARNERS. Average number.	WAGE EARNERS. Per cent distribution.	VALUE OF PRODUCTS. Amount (expressed in thousands).	VALUE OF PRODUCTS. Per cent distribution.	VALUE ADDED BY MANUFACTURE. Amount (expressed in thousands).	VALUE ADDED BY MANUFACTURE. Per cent distribution.
All industries	16,125	730,733	100.0	$5,100,309	100.0	$2,188,361	100.0
Iron and steel, steel works and rolling mills	86	73,025	10.0	626,370	12.3	245,310	11.2
Rubber tires, tubes, and rubber goods, not elsewhere specified	96	63,637	8.7	551,118	10.8	251,756	11.5
Foundry and machine-shop products	1,000	72,227	9.9	347,635	6.8	200,337	9.2
Automobiles	44	29,212	4.0	287,046	5.6	88,607	4.0
Iron and steel, blast furnaces	42	9,793	1.3	179,233	3.5	41,547	1.9
Slaughtering and meat packing	141	5,336	0.7	170,338	3.3	19,739	0.9
Electrical machinery, apparatus, and supplies	189	26,672	3.7	156,924	3.1	84,627	3.9
Cars and general shop construction and repairs by steam-railroad companies	117	35,245	4.8	96,484	1.9	56,894	2.6
Automobile bodies and parts	237	16,670	2.3	92,391	1.8	39,849	1.8
Flour-mill and gristmill products	577	2,122	0.3	89,397	1.8	12,295	0.6
Bread and other bakery products	1,621	9,091	1.2	78,819	1.6	28,863	1.3
Boots and shoes, not including rubber boots and shoes	60	14,092	1.9	71,355	1.4	30,552	1.4
Machine tools	102	13,855	1.9	62,554	1.2	45,077	2.1
Printing and publishing, newspapers and periodicals	794	7,627	1.0	58,567	1.2	40,125	1.8
Clothing, men's	246	9,939	1.4	58,169	1.1	28,099	1.3
Shipbuilding, steel, new vessels and repair work	9	11,192	1.5	56,482	1.1	33,128	1.5
Paper and wood pulp	49	6,899	0.9	55,098	1.1	19,388	0.9
Clothing, women's	175	8,258	1.1	48,704	1.0	22,627	1.0
Coke, not including gas-house coke	13	3,407	0.5	46,514	0.9	13,342	0.6
Food preparations, not elsewhere specified	98	1,857	0.3	46,340	0.9	8,926	0.4
Petroleum, refining	11	2,431	0.3	43,283	0.9	11,325	0.5
Engines, steam, gas, and water	44	6,218	0.9	42,851	0.8	22,507	1.0
Structural ironwork, not made in steel works or rolling mills	93	5,231	0.7	41,793	0.8	17,022	0.8
Butter	141	1,362	0.2	41,062	0.8	6,335	0.3
Iron and steel forgings, not made in steel works or rolling mills	38	5,931	0.8	39,563	0.8	20,877	1.0
Printing and publishing, book and job	871	8,505	1.2	39,202	0.8	24,020	1.1
Confectionery and ice cream	380	5,451	0.7	39,185	0.8	17,363	0.8
Iron and steel, wrought pipe	8	4,434	0.6	37,968	0.7	14,238	0.6
Paints	61	2,197	0.3	36,848	0.7	13,251	0.6
Glass	44	10,935	1.5	35,241	0.7	22,588	1.0
Furniture	162	8,346	1.1	35,224	0.7	20,645	0.9
Chemicals	37	3,670	0.5	32,719	0.6	17,424	0.8
Tools, not elsewhere specified	149	6,961	1.0	32,527	0.6	21,792	1.0
Lumber, planing-mill products, not including planing mills connected with sawmills	378	4,495	0.6	32,429	0.6	12,077	0.6
Brick and tile, terra-cotta, and fire-clay products	341	12,060	1.6	32,173	0.6	22,212	1.0
Coffee and spice, roasting and grinding	43	1,088	0.1	29,271	0.6	6,394	0.3
Tobacco, cigars and cigarettes	676	10,995	1.5	28,854	0.6	15,739	0.7
Pottery	95	11,339	1.6	28,675	0.6	19,663	0.9
Cars, steam-railroad, not including operations of railroad companies	8	2,177	0.3	28,146	0.6	6,830	0.3
Brass, bronze, and copper products	92	4,264	0.6	27,802	0.5	11,624	0.5
Agricultural implements	46	4,931	0.7	26,556	0.5	13,589	0.6
Liquors, malt	73	3,327	0.5	25,161	0.5	18,066	0.8
Stoves and hot-air furnaces	67	6,069	0.8	25,009	0.5	14,212	0.6
Leather, tanned, curried, and finished	24	1,565	0.2	25,008	0.5	6,190	0.3
Stoves, gas and oil	34	4,329	0.6	23,578	0.5	12,747	0.6
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	23	4,778	0.7	23,451	0.5	13,102	0.6
Knit goods	34	4,407	0.6	18,779	0.4	7,700	0.4
Condensed milk	30	711	0.1	17,198	0.3	3,035	0.1
Tinware, not elsewhere specified	14	2,608	0.4	$16,981	0.3	$6,293	0.3
Hardware	50	4,576	0.6	16,694	0.3	9,172	0.4
Screws, machine	19	4,226	0.6	16,599	0.3	11,291	0.5
Copper, tin, and sheet-iron work	262	2,650	0.4	15,809	0.3	7,320	0.3
Stamped and enameled ware, not elsewhere specified	49	3,834	0.5	15,466	0.3	8,094	0.4
Paper goods, not elsewhere specified	22	1,755	0.2	15,368	0.3	7,358	0.3
Steel barrels, drums, and tanks, portable	13	1,581	0.2	14,553	0.3	4,850	0.2
Fertilizers	23	1,197	0.2	14,042	0.3	5,971	0.3
Varnishes	33	732	0.1	13,629	0.3	4,920	0.2
Roofing materials	20	1,138	0.2	12,785	0.3	4,876	0.2
Bags, paper, exclusive of those made in paper mills	11	694	0.1	12,610	0.3	3,470	0.2
Lumber and timber products	514	3,135	0.4	12,031	0.2	6,836	0.3
Steam fittings and steam and hot-water heating apparatus	29	2,723	0.4	11,852	0.2	7,903	0.4
Aluminum manufactures	20	1,840	0.3	11,132	0.2	4,460	0.2
Motorcycles, bicycles, and parts	9	2,480	0.3	10,874	0.2	5,744	0.3
Patent medicines and compounds	202	889	0.1	10,861	0.2	6,514	0.3
Pickles, preserves, and sauces	37	1,375	0.2	10,451	0.2	3,349	0.2
Automobile repairing	540	2,430	0.3	10,245	0.2	5,751	0.3
Ice, manufactured	141	1,952	0.3	10,208	0.2	7,310	0.3
Boxes, paper and other, not elsewhere specified	58	2,952	0.4	10,030	0.2	5,225	0.2
Coal-tar products	15	834	0.1	9,495	0.2	4,105	0.2
Safes and vaults	18	1,821	0.2	9,478	0.2	6,038	0.3
Oils, linseed	3	270	(1)	9,369	0.2	1,608	0.1
Lithographing	28	1,939	0.3	9,151	0.2	5,607	0.3
Oil, not elsewhere specified	21	302	(1)	8,986	0.2	2,440	0.1
Boxes, wooden packing, except cigar boxes	98	1,874	0.3	8,937	0.2	3,584	0.2
Wirework, including wire rope and cable, not elsewhere specified	47	1,822	0.2	8,710	0.2	4,375	0.2
Plumbers' supplies, not elsewhere specified	48	1,897	0.3	8,083	0.2	4,398	0.2
Signs and advertising novelties	70	1,907	0.3	7,904	0.2	4,737	0.2
Gloves and mittens, cloth, not including gloves made in textile mills	35	2,162	0.3	7,568	0.2	2,659	0.1
Pumps, not including power pumps	20	1,265	0.2	7,393	0.1	4,626	0.2
Shirts	32	1,900	0.3	7,300	0.1	5,631	0.2
Sugar, beet	5	630	0.1	7,249	0.1	2,141	0.1
Marble and stone work, except slate	191	1,504	0.2	7,202	0.1	4,684	0.2
Lamps and reflectors	14	1,095	0.1	7,187	0.1	3,017	0.1
Awnings, tents, and sails	41	851	0.1	6,937	0.1	3,202	0.1
Minerals and earths, ground or otherwise treated	44	1,960	0.3	6,861	0.1	4,642	0.2
Canning and preserving, fruits and vegetables	87	1,576	0.2	6,838	0.1	2,426	0.1
Mineral and soda waters	217	867	0.1	6,769	0.1	3,515	0.2
Flavoring extracts	44	325	(1)	6,596	0.1	1,796	0.1
Coffins, burial cases, and undertakers' goods	20	1,148	0.2	6,475	0.1	3,635	0.2
Phonographs and graphophones	20	1,424	0.2	6,221	0.1	3,265	0.1
Carriage and wagon materials	33	1,219	0.2	5,932	0.1	2,670	0.1
Envelopes	7	1,021	0.1	5,893	0.1	2,615	0.1
Grease and tallow, not including lubricating greases	54	711	0.1	5,639	0.1	1,846	0.1
Ink, printing	8	397	0.1	5,515	0.1	1,940	0.1
Models and patterns, not including paper patterns	138	1,192	0.2	5,460	0.1	3,756	0.2
Sausage, not made in slaughtering and meat-packing establishments	30	269	(1)	5,355	0.1	1,157	0.1
Saddlery and harness	106	799	0.1	5,143	0.1	2,106	0.1
Carriages and wagons, including repairs	119	994	0.1	5,014	0.1	2,621	0.1
All other industries [2]	2,747	81,628	11.2	554,245	10.9	239,757	11.0

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

[2] Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Bags, other than paper, not including bags made in textile mills"; "cash registers and calculating machines"; "oleomargarine"; "soap"; "springs, steel, automobile"; "tin plate and terneplate"; "tobacco, chewing and smoking, and snuff"; "wire"; and "woolen goods."

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

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL. Male.	PER CENT OF TOTAL. Female.
All classes	1919	882,918	739,167	143,751	83.7	16.3
	1914	606,807	512,621	94,186	84.5	15.5
	1909	523,004	439,811	83,193	84.1	15.9
Proprietors and officials	1919	43,088	41,863	1,225	97.2	2.8
	1914	32,582	31,622	960	97.1	2.9
	1909	31,213	30,341	872	97.2	2.8
Proprietors and firm members	1919	12,823	12,292	531	95.9	4.1
	1914	13,624	13,001	623	95.4	4.6
	1909	14,719	14,141	578	96.1	3.9
Salaried officers of corporations	1919	9,825	9,540	285	97.1	2.9
	1914	7,114	6,945	169	97.6	2.4
	1909	6,371	6,258	113	98.2	1.8
Superintendents and managers	1919	20,440	20,031	409	98.0	2.0
	1914	11,844	11,676	168	98.6	1.4
	1909	10,123	9,942	181	98.2	1.8
Clerks and other subordinate salaried employees	1919	109,097	71,636	37,461	65.7	34.3
	1914	63,790	46,357	17,433	72.7	27.3
	1909	44,857	34,101	10,756	76.0	24.0
Wage earners (average number)	1919	730,733	625,668	105,065	85.6	14.4
	1914	510,435	434,642	75,793	85.2	14.8
	1909	446,934	375,369	71,565	84.0	16.0
16 years of age and over	1919	727,333	622,697	104,636	85.6	14.4
	1914	508,693	433,325	75,368	85.2	14.8
	1909	441,690	372,694	68,996	84.4	15.6
Under 16 years of age	1919	3,400	2,971	429	87.4	12.6
	1914	1,742	1,317	425	75.6	24.4
	1909	5,244	2,675	2,569	51.0	49.0

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

INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL. 16 years of age and over. Male.	16 years of age and over. Female.	Under 16 years of age.
All industries	1919	730,733	85.2	14.3	0.5
	1914	510,435	84.9	14.8	0.3
	1909	446,934	83.4	15.4	1.2
Agricultural implements	1919	4,031	98.6	1.4	.....
	1914	5,464	99.4	0.4	0.2
Automobile bodies and parts	1919	16,670	94.0	5.7	0.4
	1914	4,128	96.1	3.9	.....
Automobiles	1919	29,212	96.1	3.9	.....
	1914	14,624	98.3	1.6	0.1
Automobile repairing	1919	2,430	98.3	1.2	0.5
	1914	215	99.5	0.5	.....
Boots and shoes, not including rubber boots and shoes	1919	14,092	57.7	41.4	0.9
	1914	14,461	58.3	40.8	0.9
Boxes, paper and other, not elsewhere specified	1919	2,952	35.5	63.7	0.8
	1914	2,456	35.1	64.5	0.4
Brass, bronze, and copper products	1919	4,264	96.5	3.3	0.2
	1914	2,277	98.6	1.4	.....
Bread and other bakery products	1919	9,091	72.4	26.8	0.8
	1914	7,665	79.1	20.5	0.4
Brick and tile, terra-cotta, and fire-clay products	1919	12,060	95.5	3.9	0.6
	1914	16,238	96.7	3.2	0.1
Cars and general shop construction and repairs by steam-railroad companies	1919	35,245	99.2	0.8	.....
	1914	21,639	99.9	0.1	.....
Cars, steam-railroad, not including operations of railroad companies	1919	2,177	99.9	0.1	(1)
	1914	2,885	99.8	0.2	.....
Chemicals	1919	3,670	95.0	4.9	0.1
	1914	2,017	98.3	1.7	.....
Clothing, men's	1919	9,939	31.1	68.5	0.4
	1914	8,691	34.6	64.7	0.6
Clothing, women's	1919	8,258	31.5	68.2	0.3
	1914	9,775	35.4	64.4	0.1
Coke, not including gas-house coke	1919	3,407	85.9	0.1	14.0
	1914	489	100.0	.....	.....
Confectionery and ice cream [2]	1919	5,451	46.2	52.9	0.9
	1914	3,965	45.1	54.2	0.7
Copper, tin, and sheet-iron work	1919	2,650	94.9	5.0	0.1
	1914	2,335	96.2	3.5	0.3
Electrical machinery, apparatus, and supplies	1919	26,672	72.4	27.5	0.1
	1914	12,695	77.9	22.0	0.1
Engines, steam, gas, and water	1919	6,218	99.4	0.6	.....
	1914	2,962	99.5	0.3	0.2
Flour-mill and gristmill products	1919	2,122	98.8	0.9	0.2
	1914	2,363	99.1	0.8	0.1
Foundry and machine-shop products [3]	1919	87,803	97.3	2.6	0.1
	1914	51,553	98.9	1.0	0.1
Furniture	1919	8,346	90.7	8.7	0.6
	1914	7,750	94.5	4.4	1.0
Glass	1919	10,935	83.5	16.1	0.4
	1914	10,997	91.6	7.9	0.5
Gloves and mittens, cloth, not including gloves made in textile mills [4]	1919	2,162	12.8	83.2	4.0
Hardware	1919	4,576	84.9	14.8	0.3
	1914	4,803	90.9	8.7	0.5
Iron and steel, blast furnaces	1919	9,793	99.9	0.1	.....
	1914	5,786	100.0	(1)	.....
Iron and steel, steel works and rolling mills	1919	73,025	98.6	1.3	0.1
	1914	46,397	99.3	0.7	(1)
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	1919	4,778	82.3	17.0	0.7
	1914	2,365	88.1	11.8	(1)
Iron and steel forgings, not made in steel works or rolling mills	1919	5,931	99.6	0.3	0.1
	1914	2,308	99.7	0.1	0.2
Iron and steel, wrought pipe	1919	4,434	98.5	1.5	.....
	1914	2,285	100.0	.....	.....
Knit goods	1919	4,407	20.6	78.3	1.1
	1914	3,411	22.9	76.4	0.7
Liquors, malt	1919	3,327	99.2	0.8	.....
	1914	5,340	99.8	0.2	.....
Lumber and timber products	1919	3,135	99.5	0.4	0.1
	1914	4,798	99.2	0.8	(1)
Lumber, planing-mill products, not including planing mills connected with saw-mills	1919	4,495	98.7	1.2	0.1
	1914	5,516	99.4	0.5	(1)
Motorcycles, bicycles, and parts	1919	2,480	88.7	11.3	.....
	1914	752	96.0	4.0	.....
Paints	1919	2,197	88.9	11.1	.....
	1914	1,697	92.1	7.9	.....
Paper and wood pulp	1919	6,899	87.2	12.6	0.1
	1914	5,430	87.7	11.7	0.6
Petroleum, refining	1919	2,431	99.2	0.8	.....
	1914	1,519	98.6	1.4	.....
Pottery	1919	11,339	70.6	29.0	0.4
	1914	11,096	72.9	26.5	0.6

[1] Less than one-tenth of 1 per cent.
[2] Includes "chewing gum" in 1914.
[3] Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."
[4] Not reported separately in 1914.

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

INDUSTRY.	Census year.	Wage earners (average number).	PER CENT OF TOTAL.			INDUSTRY.	Census year.	Wage earners (average number).	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.	
Printing and publishing, book and job	1919	8,505	69.3	29.9	0.8	Stoves and hot-air furnaces	1919	6,069	97.4	2.6	0.1
	1914	7,078	73.9	25.6	0.5		1914	5,041	99.5	0.4	0.1
Printing and publishing, newspapers and periodicals	1919	7,627	81.5	17.5	1.0	Stoves, gas and oil	1919	4,329	88.1	11.8	0.2
	1914	7,274	80.8	17.3	1.9		1914	3,534	99.0	0.4	0.6
Rubber tires, tubes, and rubber goods, not elsewhere specified	1919	63,637	88.8	9.8	1.4	Structural ironwork, not made in steel works or rolling mills	1919	5,231	99.8	0.2	0.1
	1914	21,705	88.8	11.1	0.1		1914	6,657	98.9	0.9	0.2
Screws, machine	1919	4,226	82.4	17.6	.....	Tinware, not elsewhere specified	1919	2,608	66.9	33.0	0.1
	1914	1,464	92.8	7.0	0.2		1914	2,260	68.9	31.1	.....
Shipbuilding, steel, new vessels and repair work	1919	11,192	99.9	0.1	.....	Tobacco, cigars and cigarettes	1919	10,995	22.8	77.0	0.2
	1914	2,623	99.9	.....	0.1		1914	12,025	31.3	68.6	0.1
Slaughtering and meat packing	1919	5,336	92.4	7.5	0.1	Tools, not elsewhere specified	1919	6,961	93.0	6.6	0.4
	1914	3,480	97.6	2.3	0.1		1914	2,227	92.6	7.3	(1)
Stamped and enameled ware, not elsewhere specified	1919	3,834	75.3	24.5	0.2	All other industries	1919	133,456	78.2	21.2	0.6
	1914	2,853	79.4	20.4	0.3		1914	117,753	79.4	19.9	0.7
Steam fittings and steam and hot-water heating apparatus	1919	2,723	97.3	2.6	0.1						
	1914	2,414	99.7	.....	0.3						

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

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

CITY.	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
Akron	65,054	24,680	15,831	59,094	21,825	13,387	5,914	2,802	2,223	46	53	221	$558,962,067	$122,291,600	$73,158,206
Alliance	5,117	2,333	2,524	4,865	2,266	2,385	252	64	131	.....	3	8	32,871,087	7,174,766	6,135,429
Ashtabula	4,172	1,868	1,471	3,946	1,770	1,334	225	95	128	1	3	9	23,098,509	5,020,991	3,458,612
Barberton	4,762	3,118	.....	4,336	2,696	.....	426	421	.....	.....	1	.....	27,713,226	8,843,422	.....
Bellaire	2,277	2,603	2,597	1,879	2,357	2,301	394	234	254	4	12	42	14,502,401	12,170,206	10,091,554
Bucyrus	1,861	.....	.....	1,718	.....	.....	142	.....	.....	1	.....	.....	8,435,746	.....	.....
Cambridge	1,782	1,455	1,230	1,652	1,353	1,174	125	98	56	5	4	.....	11,226,809	3,923,786	4,290,560
Canton	20,336	12,255	9,964	18,365	10,823	8,892	1,965	1,393	955	6	39	117	124,292,924	43,713,446	28,582,811
Chillicothe	1,638	1,557	1,674	1,364	1,239	1,157	269	315	517	5	3	.....	7,667,182	4,083,486	4,345,224
Cincinnati	69,680	59,861	60,182	51,354	44,991	43,889	18,100	14,509	14,949	226	361	1,344	500,040,996	210,860,386	192,515,692
Cleveland	157,730	103,317	84,728	130,840	85,069	69,643	25,384	17,756	13,746	1,506	492	1,339	1,091,577,490	352,418,052	271,960,833
Columbus	26,751	17,236	16,428	22,022	14,269	13,137	4,639	2,922	3,146	90	45	145	184,021,849	57,608,084	49,031,872
Coshocton	1,959	1,614	.....	1,253	991	.....	702	623	.....	4	.....	.....	7,684,762	3,476,686	.....
Cuyahoga Falls	784	.....	.....	753	.....	.....	22	.....	.....	9	.....	.....	5,829,347	.....	.....
Dayton	31,131	24,061	21,549	25,934	20,222	17,876	5,153	3,812	3,572	44	27	101	174,990,607	71,071,374	60,378,376
East Cleveland	88	129	.....	68	124	.....	20	5	.....	.....	.....	.....	420,505	295,786	.....
East Liverpool	4,311	4,330	4,873	3,057	3,566	3,587	1,225	1,238	1,218	29	26	68	12,501,181	7,092,903	6,629,076
Elyria	4,590	2,735	2,673	3,858	2,355	2,357	729	376	289	3	4	27	25,191,454	8,791,734	8,064,914
Findlay	1,715	1,737	1,376	1,204	1,020	921	488	709	454	23	8	1	7,924,232	4,662,778	3,486,793
Fremont	2,999	2,063	.....	2,369	1,682	.....	628	379	.....	2	2	.....	12,915,095	4,779,982	.....
Hamilton	8,553	6,043	6,895	7,571	5,252	6,047	974	775	752	8	16	96	47,024,031	16,877,260	18,183,693
Ironton	1,971	1,420	1,920	1,551	1,193	1,647	384	207	269	36	20	4	14,071,850	4,666,185	7,118,259
Kenmore	135	.....	.....	128	.....	.....	7	.....	.....	.....	.....	.....	844,303	.....	.....
Lakewood	1,821	1,774	(1)	1,547	1,555	(1)	274	219	.....	.....	.....	(1)	7,602,803	3,606,498	(1)
Lancaster	2,024	1,583	1,532	1,571	1,134	1,118	452	449	412	1	.....	2	11,478,883	4,602,615	4,074,004
Lima	4,901	4,876	3,607	3,609	3,676	2,474	1,233	1,199	1,082	59	1	51	23,638,764	11,598,580	7,753,877
Lorain	11,677	6,436	6,097	12,505	6,357	6,674	97	77	20	15	2	3	116,903,616	29,110,037	38,986,996
Mansfield	4,711	3,398	3,204	3,812	2,663	2,201	894	730	984	5	5	19	31,877,551	10,281,968	8,172,911
Marietta	1,285	1,401	1,288	1,153	1,317	1,181	129	80	106	3	4	1	5,917,469	4,128,618	3,214,553
Marion	4,125	2,577	2,619	3,637	2,323	2,344	458	248	272	30	6	3	20,712,973	6,384,864	5,666,976
Martins Ferry	1,517	.....	.....	1,458	.....	.....	57	.....	.....	2	.....	.....	15,402,280	.....	.....
Massillon	2,153	1,768	1,934	1,941	1,591	1,826	204	177	87	8	.....	21	13,984,871	5,293,124	4,787,772
Middletown	6,442	4,003	2,576	5,349	3,523	1,805	1,091	480	769	2	.....	2	62,838,289	21,787,151	16,516,785
Newark	4,670	4,583	3,913	3,954	4,132	3,576	604	440	286	12	11	51	16,563,149	9,276,762	7,851,118
New Philadelphia	1,247	.....	.....	1,105	.....	.....	134	.....	.....	8	.....	.....	8,445,658	.....	.....
Niles	2,945	.....	.....	2,815	.....	.....	128	.....	.....	2	.....	.....	18,358,773	.....	.....
Norwood	8,283	5,808	3,907	6,802	4,538	3,215	1,480	1,269	684	1	1	8	47,947,183	16,724,360	9,684,332
Piqua	3,293	2,777	2,683	2,273	1,923	1,913	1,017	850	751	3	4	19	19,921,345	7,988,279	6,930,672
Portsmouth	5,914	3,597	3,728	4,235	2,441	2,237	1,491	1,137	1,390	188	19	101	36,645,736	7,682,145	7,276,893
Salem	2,237	.....	.....	2,138	.....	.....	99	.....	.....	.....	.....	.....	11,069,550	.....	.....
Sandusky	3,447	2,727	2,118	2,805	2,403	1,608	632	322	466	10	2	44	19,248,571	8,284,865	5,946,853
Springfield	12,264	7,868	7,405	10,420	7,074	6,616	1,832	786	777	12	8	12	67,759,001	27,721,789	19,246,141
Steubenville	3,855	4,506	4,267	3,628	4,294	4,045	208	202	196	19	10	26	30,903,344	16,958,937	21,187,127
Tiffin	2,213	2,177	1,632	1,948	1,775	1,289	261	348	278	4	54	65	10,516,369	4,995,880	3,254,328
Toledo	42,090	27,076	18,878	35,608	22,859	15,279	6,323	4,115	3,327	159	102	272	293,520,900	115,049,426	61,229,542
Warren	2,433	2,862	1,798	1,808	2,347	1,190	620	511	547	5	4	61	19,747,395	10,399,737	5,988,174
Youngstown	19,414	15,861	10,498	18,542	14,997	10,214	867	860	272	5	4	12	241,458,370	92,111,272	81,270,747
Zanesville	3,014	3,035	2,932	2,316	2,540	2,582	659	492	325	39	3	25	13,437,777	8,300,231	8,020,433

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

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

MONTH.	NUMBER.[1]			PER CENT OF MAXIMUM.			MONTH.	NUMBER.[1]			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January	714,195	511,055	*414,278*	90.3	95.6	86.2	July	740,188	506,133	435,241	93.6	94.7	90.6
February	698,911	524,603	421,945	88.4	98.2	87.8	August	768,579	506,991	448,898	97.2	94.8	93.4
March	694,564	**534,537**	432,343	88.0	100.0	90.0	September	773,510	510,037	465,351	97.8	95.4	96.9
April	688,040	533,186	432,828	87.0	99.7	90.1	October	740,570	501,396	474,448	93.8	93.8	98.8
May	*687,685*	523,653	436,450	87.1	98.0	90.8	November	761,688	478,412	476,023	96.4	89.5	99.1
June	710,187	518,316	444,998	89.8	97.0	92.6	December	**790,681**	*476,841*	**480,405**	100.0	89.2	100.0

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

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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries	730,733	714,195	698,911	694,564	688,040	*687,685*	710,187	740,188	768,579	773,510	740,570	761,688	**790,681**	87.0
Males	625,668	611,400	598,494	594,994	590,013	*590,210*	610,378	637,165	660,714	663,495	628,424	646,009	**676,120**	87.3
Females	105,065	102,795	100,417	99,570	*97,427*	97,473	99,809	103,023	107,865	110,010	112,142	115,679	**114,561**	84.2
Agricultural implements	4,931	5,263	5,344	5,411	5,032	4,813	4,669	*4,406*	4,642	4,741	4,765	4,938	**5,148**	81.4
Automobile bodies and parts	16,670	13,797	*12,655*	13,244	13,693	15,029	15,318	16,828	17,890	19,001	19,976	20,950	**21,679**	58.3
Automobiles	29,212	28,464	28,699	29,575	30,086	*20,274*	22,740	28,035	29,594	30,439	32,683	34,124	**35,931**	56.4
Automobile repairing	2,430	*2,156*	2,194	2,247	2,326	2,418	2,452	2,524	2,556	2,532	2,798	2,472	2,485	77.1
Boots and shoes, not including rubber boots and shoes	14,092	13,654	13,846	13,568	*13,473*	13,805	14,061	14,292	14,449	14,279	14,236	14,478	**14,963**	90.0
Boxes, paper and other, not elsewhere specified	2,952	2,856	2,909	2,907	2,870	2,773	*2,746*	2,949	2,977	2,930	3,096	**3,233**	3,170	84.9
Brass, bronze, and copper products	4,264	3,716	*3,681*	3,744	3,843	3,840	3,968	4,338	4,594	4,632	4,843	**5,036**	4,033	73.1
Bread and other bakery products	9,091	*8,477*	8,507	8,586	8,666	8,778	8,910	9,220	9,299	9,418	9,571	9,794	**9,866**	85.9
Brick and tile, terra-cotta, and fire-clay products	12,060	*9,433*	9,452	10,163	11,193	12,217	13,014	13,667	13,510	13,817	13,666	12,817	11,771	68.3
Cars and general shop construction and repairs by steam-railroad companies	35,245	34,806	34,292	33,047	*32,688*	34,196	34,898	35,451	35,812	36,515	36,914	36,995	**37,236**	87.8
Cars, steam-railroad, not including operations of railroad companies	2,177	2,494	2,213	2,242	2,134	1,952	*1,847*	1,921	1,934	2,091	2,332	2,425	**2,539**	72.7
Chemicals	3,670	3,901	3,462	3,315	*3,022*	3,062	3,247	3,569	3,762	4,155	**4,210**	4,138	4,197	71.8
Clothing, men's	9,039	8,761	8,972	9,016	*8,688*	9,000	9,405	9,924	10,400	10,694	11,167	11,581	**11,660**	74.5
Clothing, women's	8,258	*7,594*	8,145	8,145	8,214	7,712	8,214	8,821	**9,138**	9,061	8,389	7,771	7,892	83.1
Coke, not including gas-house coke	3,407	**4,257**	3,838	3,647	3,575	3,242	3,474	3,533	3,555	3,416	*3,256*	2,961	3,130	53.0
Confectionery and ice cream	5,451	4,931	4,913	4,753	*4,588*	4,698	5,023	5,046	5,819	6,361	**6,689**	6,584	6,007	68.6
Copper, tin, and sheet-iron work	2,650	2,638	2,351	*2,288*	2,364	2,468	2,613	2,671	2,783	2,845	2,891	2,933	**2,955**	77.4
Electrical machinery, apparatus, and supplies	26,672	25,360	25,021	25,262	24,841	*22,900*	23,970	25,350	27,478	28,277	29,496	30,558	**31,551**	72.6
Engines, steam, gas, and water	6,218	6,351	6,041	6,175	5,969	*5,673*	5,988	6,629	**6,607**	6,231	6,202	6,213	6,477	85.1
Flour-mill and gristmill products	2,122	2,064	*1,937*	2,003	2,067	2,030	2,033	2,022	2,260	**2,281**	2,243	2,252	2,272	84.9
Foundry and machine-shop products	72,227	75,538	70,460	69,652	68,523	*67,200*	67,485	69,597	71,668	72,489	75,859	78,068	**79,995**	84.1
Furniture	8,346	7,617	*7,614*	7,673	7,820	7,836	8,045	8,332	8,684	8,741	9,002	9,247	**9,541**	79.8
Glass	10,935	9,851	10,961	11,094	11,517	11,177	10,943	*9,077*	10,239	10,818	11,516	11,942	**12,086**	75.1
Gloves and mittens, cloth, not including gloves made in textile mills	2,162	**2,745**	2,450	2,162	1,882	*1,733*	1,810	2,026	2,100	2,060	2,147	2,178	2,651	63.1
Hardware	4,576	*4,172*	4,351	4,629	4,634	4,635	4,528	4,611	**4,904**	4,455	4,573	4,588	4,832	85.1
Iron and steel, blast furnaces	9,793	12,137	11,086	10,247	9,534	9,322	9,465	9,935	10,163	10,440	*6,105*	8,881	10,201	50.3
Iron and steel, steel works and rolling mills	73,025	**85,394**	80,123	76,342	69,910	70,438	72,805	80,007	81,136	80,241	*41,747*	60,712	78,745	48.9
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	4,778	5,334	4,998	4,980	4,824	4,365	4,816	4,705	4,819	4,860	*3,975*	4,698	4,962	74.5
Iron and steel forgings, not made in steel works or rolling mills	5,931	6,563	6,302	5,842	5,737	5,712	5,803	5,727	6,072	*5,701*	5,761	5,953	5,999	86.9
Iron and steel, wrought pipe	4,434	4,659	4,493	4,317	4,460	4,444	4,600	4,793	**4,970**	4,955	*3,416*	3,550	4,546	68.7
Knit goods	4,407	3,877	*3,586*	3,688	3,850	4,000	4,263	4,525	4,879	4,863	5,075	5,123	**5,149**	69.6
Liquors, malt	3,327	3,221	3,121	3,142	3,204	3,416	3,788	**3,935**	3,806	3,474	3,206	2,835	*2,776*	70.5
Lumber and timber products	3,135	*2,850*	2,881	3,035	3,133	3,054	3,228	2,904	3,002	3,160	3,399	3,431	**3,543**	80.4
Lumber, planing-mill products, not including planing mills connected with sawmills	4,495	*3,736*	3,740	3,803	4,077	4,332	4,656	4,804	4,926	4,879	4,998	4,968	**5,021**	74.4
Motorcycles, bicycles, and parts	2,480	**2,995**	2,616	2,392	2,264	2,285	*2,224*	2,236	2,328	2,402	2,561	2,709	2,748	74.3
Paints	2,197	*1,930*	1,949	1,976	2,067	2,192	2,300	2,320	2,351	2,273	2,321	**2,379**	2,306	81.1
Paper and wood pulp	6,899	6,838	6,463	6,384	*6,300*	6,438	6,726	7,171	7,382	6,894	7,431	**7,464**	7,291	84.5
Petroleum, refining	2,431	2,416	2,431	2,351	*2,351*	2,356	2,389	2,524	**2,556**	2,495	2,477	2,449	2,397	91.2
Pottery	11,339	*10,698*	10,728	10,926	11,074	11,163	11,171	11,301	11,597	11,596	11,894	**11,991**	11,920	89.2
Printing and publishing, book and job	8,505	*7,837*	7,922	7,949	8,132	8,222	8,445	8,696	8,700	8,705	8,854	9,252	**9,346**	83.9
Printing and publishing, newspapers and periodicals	7,627	*7,241*	7,267	7,418	7,483	7,585	7,574	7,545	7,690	7,719	7,895	8,038	**8,069**	89.7
Rubber tires, tubes, and rubber goods, not elsewhere specified	63,637	*53,904*	56,340	56,747	58,382	61,209	63,649	**67,157**	71,484	71,834	**74,720**	63,864	64,354	72.1
Screws, machine	4,226	*3,541*	3,642	3,830	4,025	4,130	4,146	4,204	4,470	4,582	4,746	4,644	**4,752**	74.5
Shipbuilding, steel, new vessels and repair work	11,192	10,606	11,419	**12,081**	11,925	12,068	12,057	11,146	11,740	11,054	10,992	9,937	*9,279*	76.8
Slaughtering and meat packing	5,336	5,844	5,348	5,148	4,999	*4,995*	5,366	5,316	5,033	5,063	5,198	5,733	**5,984**	83.5
Stamped and enameled ware, not elsewhere specified	3,834	3,489	3,462	*3,444*	3,628	3,684	3,727	3,848	3,973	4,018	4,220	**4,328**	4,187	79.6
Steam fittings and steam and hot-water heating apparatus	2,723	2,709	2,603	2,574	2,545	*2,518*	2,567	2,718	2,826	2,822	2,872	2,861	**3,061**	82.3
Stoves and hot-air furnaces	6,069	5,666	5,762	*5,486*	5,641	5,733	6,028	5,487	6,370	6,520	6,539	6,766	**6,824**	80.4
Stoves, gas and oil	4,329	3,651	3,727	3,669	*3,624*	3,672	3,767	4,353	4,606	4,683	5,195	**5,509**	5,492	65.8
Structural ironwork, not made in steel works or rolling mills	5,231	5,502	5,088	4,826	*4,558*	4,605	4,843	5,147	5,470	5,621	5,286	5,860	**5,971**	76.3
Tinware, not elsewhere specified	2,608	2,491	2,352	2,312	*2,295*	2,472	2,625	2,727	**2,912**	2,789	2,803	2,780	2,738	78.8
Tobacco, cigars and cigarettes	10,995	10,845	11,064	10,910	10,714	10,565	10,603	10,558	*10,529*	10,644	11,398	11,794	**12,316**	85.5
Tools, not elsewhere specified	6,961	7,415	6,905	6,800	*6,508*	6,398	6,359	6,608	6,858	7,058	7,270	7,615	**7,938**	79.5
All other industries	149,032	139,820	*137,205*	138,397	137,307	142,753	149,091	152,852	159,217	**159,884**	156,793	157,283	157,782	85.8

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.	
Industries showing large proportion of females.														
Boots and shoes, not including rubber boots and shoes	5,865	5,843	5,907	5,699	*5,506*	5,708	5,846	6,005	6,077	5,950	5,785	5,927	6,127	89.9
Boxes, paper and other, not elsewhere specified	1,901	1,828	1,871	1,876	1,844	1,792	*1,762*	1,924	1,897	1,870	1,996	2,116	2,036	83.3
Bread and other bakery products	2,455	*2,248*	*2,247*	2,261	2,252	2,284	2,367	2,517	2,557	2,607	2,686	2,725	2,709	82.5
Clothing, men's	6,836	6,094	6,211	6,169	*6,008*	6,216	6,443	6,801	7,101	7,306	7,652	7,992	8,039	74.7
Clothing, women's	5,654	*5,184*	5,545	5,444	5,556	5,345	5,640	6,088	6,308	6,220	5,759	5,362	5,397	82.2
Confectionery and ice cream	2,895	2,753	2,712	2,565	2,296	2,297	*2,261*	*2,261*	2,875	3,505	3,900	3,847	3,468	58.0
Electrical machinery, apparatus, and supplies	7,341	7,231	7,142	7,520	6,962	*6,118*	6,727	6,737	7,494	7,841	7,958	8,131	8,222	74.4
Glass	1,771	1,639	1,777	1,843	1,843	1,836	1,851	*1,424*	1,558	1,667	1,872	1,976	1,966	72.1
Gloves and mittens, cloth, not including gloves made in textile mills	1,862	2,401	2,127	1,890	1,627	*1,476*	1,536	1,710	1,803	1,772	1,839	1,863	2,300	61.5
Hardware	679	698	695	689	663	638	*578*	656	686	663	753	726	733	76.8
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	816	866	788	767	763	769	833	804	841	840	*732*	869	920	79.6
Knit goods	3,471	3,016	*2,753*	2,877	2,995	3,131	3,337	3,592	3,855	3,863	4,050	4,083	4,100	67.1
Paper and wood pulp	874	874	*798*	801	803	846	864	885	918	851	930	955	963	82.9
Pottery	3,309	*3,078*	3,112	3,176	3,211	3,269	3,277	3,261	3,382	3,418	3,498	3,528	3,498	87.2
Printing and publishing, book and job	2,550	2,358	2,352	*2,310*	2,410	2,472	2,537	2,661	2,596	2,605	2,621	2,833	2,845	81.2
Printing and publishing, newspapers and periodicals	1,338	1,363	1,326	1,360	1,357	1,381	1,327	1,290	1,298	*1,286*	1,338	1,361	1,370	93.0
Rubber tires, tubes, and rubber goods, not elsewhere specified	6,223	6,276	6,177	5,821	5,754	*5,540*	5,572	5,726	5,985	6,125	6,481	8,197	7,022	67.6
Screws, machine	742	*618*	661	706	727	708	692	714	719	727	985	852	795	62.7
Stoves, gas and oil	509	442	462	456	452	*426*	468	520	540	548	561	609	624	68.3
Tinware, not elsewhere specified	860	872	808	792	*764*	830	875	901	932	913	878	896	859	82.0
Tobacco, cigars and cigarettes	8,481	8,452	8,688	8,505	8,337	8,212	8,191	8,101	*8,001*	8,099	8,695	9,029	9,462	84.6
Total for cities[1]	577,271	561,688	553,007	551,468	545,555	*541,706*	557,860	582,876	604,870	606,131	590,601	604,995	626,495	86.5
Males	487,499	473,446	466,765	466,222	461,901	*458,166*	472,823	495,015	513,260	513,097	495,002	505,829	528,463	86.7
Females	89,772	88,242	86,242	85,246	83,654	*83,541*	85,037	87,861	91,610	93,034	95,599	99,166	98,032	84.2
AKRON	65,054	*55,897*	57,575	57,455	58,879	62,119	65,258	69,013	73,074	72,507	75,928	66,395	66,547	73.6
Males	59,138	*49,958*	51,840	51,992	53,544	56,918	59,995	63,598	67,448	66,743	69,574	58,316	59,730	71.8
Females	5,916	5,939	5,735	5,463	5,335	*5,201*	5,263	5,415	5,626	5,764	6,355	8,079	6,817	64.4
ALLIANCE	5,117	5,898	5,836	5,501	5,249	5,158	5,031	5,004	5,014	4,894	4,842	4,497	*4,480*	76.0
Males	4,865	5,666	5,614	5,295	5,010	4,921	4,789	4,761	4,770	4,629	4,568	4,228	*4,129*	72.9
Females	252	232	222	*206*	239	237	242	243	244	265	274	269	351	58.7
ASHTABULA	4,172	3,952	4,021	4,119	4,103	4,301	4,391	4,403	4,485	3,953	*3,925*	4,192	4,219	87.5
Males	3,947	3,753	3,808	3,927	3,906	4,078	4,139	4,116	4,226	3,697	*3,673*	3,974	4,067	86.9
Females	225	199	213	192	197	223	252	287	259	256	252	218	*152*	53.0
BARBERTON	4,762	5,661	4,967	4,679	4,423	4,408	*4,364*	4,570	4,643	4,738	4,841	4,861	4,989	77.1
Males	4,336	5,168	4,476	4,234	4,034	4,028	*3,989*	4,160	4,220	4,318	4,416	4,427	4,562	77.2
Females	426	493	491	445	389	380	*375*	410	423	420	425	434	427	76.1
BELLAIRE	2,277	2,563	2,501	2,309	2,148	2,004	2,065	2,538	2,734	2,687	1,918	*1,906*	1,951	69.7
Males	1,882	2,198	2,167	1,917	1,740	1,624	1,676	2,209	2,349	2,281	*1,485*	1,466	1,492	62.4
Females	395	365	334	392	408	380	389	*329*	385	406	453	440	459	71.7
BUCYRUS	1,861	2,421	2,023	1,815	*1,657*	1,696	1,795	1,817	1,818	1,796	1,854	1,844	1,816	67.6
Males	1,719	2,267	1,872	1,665	*1,503*	1,567	1,656	1,674	1,682	1,666	1,716	1,698	1,657	66.5
Females	142	154	151	150	*129*	*129*	139	143	136	130	138	146	159	81.1
CAMBRIDGE	1,782	1,808	*1,654*	1,676	1,679	1,681	1,773	1,840	1,880	1,832	1,866	1,813	1,882	87.9
Males	1,657	1,693	*1,548*	1,561	1,561	1,550	1,643	1,741	1,764	1,694	1,716	1,675	1,738	87.8
Females	125	115	106	115	118	131	130	*99*	116	138	150	138	144	66.0
CANTON	20,336	19,368	19,695	20,016	19,210	19,626	20,098	20,948	21,623	20,748	*18,845*	21,950	21,905	85.9
Males	18,371	17,488	17,781	18,075	17,312	17,702	18,170	18,953	19,598	18,716	*16,773*	19,889	19,935	84.1
Females	1,965	1,880	1,914	1,941	1,898	*1,864*	1,928	1,995	2,025	2,032	2,072	2,061	1,970	90.0
CHILLICOTHE	1,638	1,424	1,428	*1,389*	1,430	1,542	1,996	1,817	1,940	1,751	1,751	1,584	1,604	69.6
Males	1,368	1,212	1,231	*1,198*	1,224	1,255	1,709	1,432	1,487	1,431	1,479	1,379	1,379	70.1
Females	270	212	197	*191*	206	287	287	385	453	320	272	205	225	42.2
CINCINNATI	69,680	66,318	65,805	65,385	*64,807*	65,304	67,171	69,742	72,042	72,860	73,706	75,871	77,149	84.0
Males	51,495	48,587	48,318	48,299	*47,871*	48,145	49,547	51,569	53,386	54,060	54,660	56,093	57,405	83.4
Females	18,185	17,731	17,487	17,086	*16,936*	17,159	17,624	18,173	18,656	18,800	19,046	19,778	19,744	85.6
CLEVELAND	157,730	153,339	149,085	148,993	*147,365*	150,237	153,748	159,223	164,754	165,455	159,310	167,909	172,842	85.2
Males	132,295	129,126	125,326	125,159	*123,923*	126,634	129,552	133,934	137,841	138,499	131,752	140,317	145,477	85.2
Females	25,435	24,713	23,759	23,834	*23,442*	23,603	24,196	25,289	26,913	26,956	27,558	27,592	27,365	85.0
COLUMBUS	26,751	26,188	26,017	25,574	*25,052*	25,407	25,743	26,564	27,545	27,534	28,117	28,673	28,598	87.4
Males	22,067	21,920	21,568	21,108	*20,601*	20,970	21,277	22,049	22,853	22,795	23,015	23,351	23,297	88.2
Females	4,684	*4,268*	4,449	4,466	4,451	4,437	4,466	4,515	4,692	4,739	5,102	5,322	5,301	80.2
COSHOCTON	1,959	*1,772*	1,820	1,788	1,854	1,897	1,928	2,018	2,061	2,098	2,081	2,094	2,097	84.5
Males	1,257	*1,111*	1,169	1,122	1,180	1,206	1,232	1,318	1,328	1,354	1,339	1,358	1,367	81.3
Females	702	661	*651*	666	674	691	696	700	733	744	742	736	730	87.5
CUYAHOGA FALLS	784	*700*	712	714	741	789	785	843	899	819	798	789	819	77.9
Males	762	*681*	696	699	723	770	767	819	871	799	771	761	787	78.2
Females	22	19	16	*15*	18	19	18	24	28	20	27	28	32	46.9
DAYTON	31,131	28,443	*26,887*	27,911	28,616	30,061	30,691	31,765	31,958	33,220	34,324	34,586	35,110	76.6
Males	25,971	23,190	*21,905*	23,109	23,853	25,165	25,690	26,665	26,896	27,798	28,801	29,066	29,514	74.2
Females	5,160	5,253	4,982	4,802	*4,763*	4,896	5,001	5,100	5,062	5,422	5,523	5,520	5,596	85.1
EAST CLEVELAND	88	95	90	89	90	92	84	94	89	85	85	*81*	82	85.3
Males	68	76	71	70	72	73	65	73	69	64	63	*59*	61	77.6
Females	20	19	19	19	*18*	19	19	21	20	21	22	22	21	81.8
EAST LIVERPOOL	4,311	4,191	*4,116*	4,131	4,184	4,220	4,274	4,315	4,420	4,406	4,518	4,502	4,455	91.1
Males	3,082	3,005	*2,917*	2,937	2,999	3,009	3,064	3,114	3,161	3,137	3,243	3,215	3,183	89.9
Females	1,229	1,186	1,199	1,194	*1,185*	1,211	1,210	1,201	1,259	1,269	1,275	1,287	1,272	92.1

[1] Excludes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.

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.	
ELYRIA	4,590	*3,843*	4,270	4,328	4,288	4,486	4,051	4,350	4,562	4,834	5,092	5,421	5,555	69.2
Males	3,861	*3,249*	3,635	3,651	3,631	3,822	3,336	3,598	3,804	4,059	4,294	4,558	4,695	69.2
Females	729	*594*	635	677	657	664	715	752	758	775	798	863	860	68.8
FINDLAY	1,715	1,559	1,609	*1,555*	1,563	1,667	1,660	1,743	1,880	1,786	1,821	1,837	1,900	81.8
Males	1,210	*1,026*	1,062	1,042	1,059	1,165	1,180	1,265	1,378	1,310	1,352	1,345	1,336	74.5
Females	505	533	547	513	504	502	480	478	502	476	*469*	492	564	83.2
FREMONT	2,999	2,983	2,871	2,865	*2,783*	2,903	2,957	2,953	3,006	2,986	3,168	3,283	3,230	84.8
Males	2,371	2,350	2,299	2,283	*2,205*	2,318	2,371	2,352	2,386	2,351	2,461	2,544	2,532	80.7
Females	628	633	*572*	582	578	585	586	601	620	635	707	739	698	77.4
HAMILTON	8,553	8,086	*7,987*	8,004	7,953	8,142	8,110	8,997	9,251	8,982	9,076	8,997	9,121	85.7
Males	7,579	7,168	7,179	7,152	*7,095*	7,223	7,167	7,939	8,164	7,919	8,016	7,920	8,006	86.9
Females	974	918	*748*	852	858	919	943	1,048	1,087	1,063	1,060	1,077	1,115	67.1
IRONTON	1,971	2,083	2,078	1,942	1,866	1,843	1,834	*1,827*	1,894	2,004	2,217	1,988	2,076	82.4
Males	1,587	1,659	1,633	1,533	1,490	*1,451*	1,481	1,465	1,517	1,635	1,847	1,638	1,695	78.6
Females	384	424	445	409	376	392	353	362	377	369	370	*350*	381	78.7
KENMORE	135	*130*	*130*	131	134	135	137	139	138	138	136	136	136	93.5
Males	128	*126*	*126*	*126*	127	129	129	130	129	130	128	128	128	96.9
Females	7	*4*	4	5	7	6	8	9	9	8	8	8	8	44.4
LAKEWOOD	1,821	1,982	1,708	1,684	*1,610*	1,629	1,616	1,689	1,741	1,897	1,967	*2,104*	2,225	72.4
Males	1,547	1,620	1,437	1,424	*1,373*	1,386	1,387	1,436	1,490	1,611	1,683	1,804	1,913	71.8
Females	274	362	271	260	237	243	*229*	253	251	286	284	300	312	63.3
LANCASTER	2,024	2,024	1,995	2,023	2,025	2,076	*1,952*	1,993	2,007	2,007	2,031	2,072	2,083	93.7
Males	1,572	1,595	1,561	1,589	1,603	1,648	*1,511*	1,548	1,550	1,534	1,553	1,583	1,589	91.7
Females	452	429	434	434	*422*	428	441	445	457	473	478	489	494	85.4
LIMA	4,901	5,619	5,527	5,331	4,632	4,413	4,403	4,624	4,030	*4,080*	4,521	5,179	5,553	72.6
Males	3,631	4,326	4,235	4,099	3,446	3,256	3,235	3,494	3,832	*3,872*	3,144	3,633	4,000	66.4
Females	1,270	1,293	1,292	1,232	1,186	1,157	1,168	1,130	*1,098*	1,208	1,377	1,546	1,553	70.7
LORAIN	11,677	11,466	11,810	12,323	11,829	11,121	11,524	*11,003*	11,585	11,715	11,821	11,915	12,012	89.3
Males	11,574	11,283	11,676	12,235	11,743	11,037	11,446	*10,902*	11,488	11,621	11,722	11,813	11,922	89.1
Females	103	183	134	88	86	84	78	101	97	94	99	102	90	42.6
MANSFIELD	4,711	4,678	4,484	4,498	4,454	*4,321*	4,490	4,630	4,847	4,843	4,898	5,150	5,239	82.5
Males	3,817	3,780	3,592	3,624	3,630	*3,525*	3,676	3,807	3,971	3,938	3,926	4,121	4,214	83.6
Females	894	898	892	874	824	*796*	814	823	876	905	972	1,029	1,025	77.4
MARIETTA	1,285	1,025	*925*	972	1,048	1,154	1,236	1,316	1,381	1,473	1,603	1,617	1,670	55.4
Males	1,155	948	*857*	897	967	1,044	1,095	1,170	1,216	1,314	1,437	1,439	1,476	58.1
Females	130	77	*68*	75	81	110	141	146	165	159	166	178	194	35.1
MARION	4,125	4,202	4,147	4,071	4,049	4,065	*3,990*	4,060	4,155	4,070	4,194	4,257	4,231	93.7
Males	3,641	3,777	3,695	3,607	3,579	3,603	*3,529*	3,573	3,671	3,584	3,672	3,710	3,692	93.4
Females	484	*425*	452	464	470	462	461	496	484	486	522	547	539	77.7
MARTINS FERRY	1,517	2,106	2,293	1,559	763	1,266	1,891	2,206	2,249	1,486	*339*	597	1,449	14.8
Males	1,460	2,039	2,210	1,486	722	1,201	1,830	2,126	2,160	1,429	*321*	581	1,415	14.5
Females	57	67	83	73	41	65	61	80	89	57	18	*16*	34	18.0
MASSILLON	2,153	2,082	*2,039*	2,048	2,151	2,250	2,271	2,207	2,154	2,151	2,178	2,130	2,175	89.8
Males	1,946	1,881	*1,851*	1,854	1,953	2,052	2,072	1,995	1,947	1,932	1,957	1,907	1,951	89.3
Females	207	201	*188*	194	198	198	199	212	207	219	221	223	224	83.9
MIDDLETOWN	6,442	6,538	6,576	6,506	6,288	*6,164*	6,186	6,318	6,453	6,430	6,473	6,674	6,608	92.0
Males	5,351	5,576	5,472	5,388	5,228	*5,123*	5,180	5,259	5,354	5,340	5,350	5,441	5,501	91.9
Females	1,091	*962*	1,104	1,118	1,060	1,041	1,006	1,059	1,099	1,090	1,123	1,233	1,197	78.0
NEWARK	4,570	4,443	4,247	4,295	4,499	4,588	4,689	*4,150*	4,661	4,695	4,795	4,815	4,963	83.6
Males	3,959	3,738	3,646	3,701	3,871	3,953	4,066	*3,590*	4,074	4,123	4,196	4,184	4,366	82.2
Females	611	705	601	594	628	635	623	*560*	587	572	599	631	597	79.4
NEW PHILADELPHIA	1,247	1,283	1,190	1,107	*1,028*	1,080	1,122	1,345	1,382	1,347	1,397	1,326	1,357	73.6
Males	1,112	1,163	1,053	969	*893*	930	990	1,209	1,243	1,209	1,264	1,192	1,229	70.6
Females	135	*120*	137	138	135	150	132	136	139	138	133	134	128	80.0
NILES	2,945	3,770	3,270	3,035	3,323	2,836	3,158	3,129	2,931	2,986	*1,029*	2,596	3,280	27.2
Males	2,817	3,640	3,135	2,900	3,202	2,701	3,027	2,993	2,807	2,873	*914*	2,462	3,150	25.1
Females	128	130	135	135	121	135	131	136	124	113	*115*	134	130	82.4
NORWOOD	8,283	8,259	7,832	7,751	*7,615*	7,845	8,022	8,298	8,418	8,428	8,729	8,977	9,222	82.6
Males	6,803	6,636	6,327	6,284	*6,194*	6,374	6,525	6,822	6,991	7,003	7,282	7,471	7,727	80.2
Females	1,480	1,623	1,505	1,467	*1,421*	1,471	1,497	1,476	1,427	1,425	1,447	1,506	1,495	87.6
PIQUA	3,293	2,980	3,147	3,147	3,102	3,138	3,201	*2,907*	3,399	3,455	3,598	3,633	3,809	76.3
Males	2,275	*1,951*	2,137	2,130	2,166	2,167	2,222	2,011	2,372	2,423	2,529	2,546	2,646	73.7
Females	1,018	1,029	1,010	1,017	936	971	979	*896*	1,027	1,032	1,069	1,087	1,163	77.0
PORTSMOUTH	5,914	5,744	5,613	5,408	5,594	*5,365*	5,624	5,727	6,038	6,178	6,321	6,496	6,860	78.2
Males	4,403	4,248	4,126	3,954	4,177	3,907	4,129	4,217	4,478	4,641	4,797	4,926	5,236	74.6
Females	1,511	1,496	1,487	1,454	*1,417*	1,458	1,495	1,510	1,560	1,537	1,524	1,570	1,624	87.3
SALEM	2,237	2,134	2,077	*2,040*	2,207	2,145	2,200	2,277	2,233	2,282	2,318	2,366	2,565	79.5
Males	2,138	2,047	1,987	*1,954*	2,116	2,050	2,102	2,182	2,134	2,182	2,201	2,253	2,448	79.8
Females	99	87	90	*86*	91	95	98	95	99	100	117	113	117	73.5
SANDUSKY	3,447	3,427	3,464	3,398	3,278	3,323	*3,241*	3,352	3,396	3,506	3,540	3,658	3,781	85.7
Males	2,815	2,829	2,816	2,774	2,676	2,757	*2,670*	2,782	2,824	2,806	2,817	2,920	3,109	85.9
Females	632	598	648	624	602	*566*	571	570	572	700	723	738	672	76.7
SPRINGFIELD	12,264	11,638	11,668	11,738	*11,549*	11,861	12,093	12,393	12,544	12,629	12,858	13,044	13,153	87.8
Males	10,426	10,016	10,060	10,120	*9,956*	10,184	10,237	10,509	10,566	10,592	10,803	10,993	11,126	89.3
Females	1,838	1,622	*1,608*	1,617	1,613	1,677	1,856	1,884	1,978	2,037	2,055	2,051	2,027	77.3
STEUBENVILLE	3,855	4,673	4,564	4,543	3,608	3,653	3,823	4,538	4,737	4,803	*1,262*	1,399	4,657	26.3
Males	3,643	4,489	4,348	4,328	3,409	3,452	3,620	4,335	4,503	4,597	*1,049*	1,186	4,400	22.8
Females	212	*184*	216	215	199	201	203	203	234	206	213	213	257	71.6

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.	
TIFFIN	2,213	2,151	2,095	2,133	2,109	*2,084*	2,107	2,189	2,258	2,286	2,294	2,420	2,430	85.8
Males	1,948	1,863	*1,810*	1,852	1,849	1,836	1,855	1,947	1,996	2,016	2,043	2,146	2,163	83.7
Females	265	288	285	281	260	248	252	*242*	262	270	251	274	267	84.0
TOLEDO	42,090	42,597	43,348	44,479	44,211	*31,205*	33,740	39,492	42,499	43,352	45,608	46,408	48,141	64.8
Males	35,750	35,986	36,910	38,102	37,969	*25,838*	28,585	33,731	36,199	36,651	38,767	39,367	40,895	63.2
Females	6,340	6,611	6,438	6,377	6,242	5,367	*5,155*	5,761	6,300	6,701	6,841	7,041	7,246	71.1
WARREN	2,433	2,440	2,350	2,230	2,205	*2,177*	2,229	2,384	2,467	2,584	2,641	2,687	2,802	77.7
Males	1,811	1,815	1,690	*1,556*	1,593	1,624	1,621	1,800	1,860	1,940	2,035	2,060	2,138	72.8
Females	622	625	660	674	612	*553*	608	584	607	644	606	627	664	82.0
YOUNGSTOWN	19,414	22,093	20,404	19,766	19,477	19,312	20,156	21,145	21,698	22,303	*10,916*	15,232	20,466	48.9
Males	18,547	21,092	19,456	18,886	18,660	18,483	19,323	20,341	20,882	21,441	*10,055*	14,368	19,577	46.9
Females	867	1,001	948	880	817	829	833	*804*	816	862	861	864	889	80.3
ZANESVILLE	3,014	3,112	3,117	3,014	*2,847*	2,917	2,952	2,982	2,997	3,032	3,053	3,034	3,111	91.3
Males	2,342	2,431	2,437	2,355	2,278	*2,251*	2,266	2,302	2,325	2,340	2,363	2,348	2,408	92.4
Females	672	681	680	659	*569*	666	686	680	672	692	690	686	703	80.9

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	730,733	48,750	48,086	198,838	156,028	51,695	136,582	59,145	31,659
	1914	510,435	[2]	[2]	69,975	78,201	116,627	126,649	89,552	29,431
	1909	446,934	[2]	[2]	31,977	29,296	88,915	130,852	131,853	34,041
Agricultural implements	1919	4,031	4	.....	4	1,804	634	2,006	416	3
	1914	5,464	[2]	[2]	10	593	811	3,519	531	.....
Automobile bodies and parts	1919	16,670	2,385	487	5,914	3,477	1,241	2,570	596	.....
	1914	4,128	[2]	[2]	437	538	265	2,557	331	.....
Automobiles	1919	29,212	692	704	12,344	10,534	231	4,707	.....	.....
	1914	14,624	[2]	[2]	39	9,600	2,409	2,406	170	.....
Automobile repairing	1919	2,430	58	4	282	134	778	603	532	39
	1914	215	[2]	[2]	25	49	47	29	64	1
Boots and shoes, not including rubber boots and shoes	1919	14,092	15	.....	17	12,309	257	1,470	24	.....
	1914	14,461	[2]	[2]	810	103	6,089	7,201	258	.....
Boxes, paper and other, not elsewhere specified	1919	2,952	196	33	39	2,083	264	220	67	.....
	1914	2,456	[2]	[2]	329	149	1,594	219	165	.....
Brass, bronze, and copper products	1919	4,264	578	104	741	2,159	206	444	32	.....
	1914	2,277	[2]	[2]	484	422	543	651	75	102
Bread and other bakery products	1919	9,091	223	864	4,549	448	1,472	525	899	111
	1914	7,665	[2]	[2]	758	328	3,787	493	1,969	330
Brick and tile, terra-cotta, and fire-clay products	1919	12,060	76	76	1,624	1,587	2,552	2,052	3,900	193
	1914	16,238	[2]	[2]	604	814	2,840	2,802	9,046	132
Cars and general shop construction and repairs by steam-railroad companies	1919	35,245	243	916	21,533	189	585	11,662	117	.....
	1914	21,639	[2]	[2]	8,512	3,164	5,025	730	857	3,351
Cars, steam-railroad, not including operations of railroad companies	1919	2,177	132	773	.....	213	.....	1,059	.....	.....
	1914	2,885	.....	.....	.....	929	98	1,858	.....	.....
Chemicals	1919	3,670	116	46	77	371	20	2,739	283	18
	1914	2,017	[2]	[2]	380	.....	.....	859	266	512
Clothing, men's	1919	9,939	6,154	1,599	1,303	751	122	9	1	.....
	1914	8,691	[2]	[2]	3,058	4,095	1,358	142	38	.....
Clothing, women's	1919	8,258	6,521	506	660	563	8	.....	.....	.....
	1914	9,775	[2]	[2]	903	7,385	1,457	3	27	.....
Coke, not including gas-house coke	1919	3,407	.....	.....	.....	.....	.....	1,094	.....	2,313
	1914	489	.....	.....	.....	.....	.....	.....	205	284
Confectionery and ice cream [3]	1919	5,451	122	284	1,044	1,713	728	845	488	227
	1914	3,965	[2]	[2]	292	357	2,091	587	322	316
Copper, tin, and sheet-iron work	1919	2,650	543	45	315	948	113	248	437	1
	1914	2,335	[2]	[2]	783	310	396	518	328	.....
Electrical machinery, apparatus, and supplies	1919	26,672	736	362	6,336	10,998	722	5,468	2,050	.....
	1914	12,695	[2]	[2]	657	3,850	4,093	3,795	295	.....
Engines, steam, gas, and water	1919	6,218	633	308	1,207	327	110	3,582	51	.....
	1914	2,902	[2]	[2]	100	179	59	2,400	224	.....
Flour-mill and gristmill products	1919	2,122	23	7	429	27	171	68	1,289	108
	1914	2,363	[2]	[2]	115	18	216	105	1,683	226
Foundry and machine-shop products [4]	1919	87,803	3,847	2,797	25,681	22,910	9,206	20,096	2,956	310
	1914	51,553	[2]	[2]	4,377	7,786	10,749	21,324	7,308	

[1] Includes 48 and under for 1914 and 1909.
[2] Corresponding figures not available.
[3] Includes "chewing gum" in 1919.
[4] Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."

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.
Furniture	1919	8,346	253	44	423	2,513	593	4,084	436	.....
	1914	7,750	(2)	(2)	622	1,496	813	2,591	2,228	.....
Glass	1919	10,935	1,197	2,723	3,780	1,471	916	783	65	.....
	1914	10,997	(2)	(2)	784	4,515	2,916	198	2,276	308
Gloves and mittens, cloth, not including gloves made in textile mills[3]	1919	2,162	20	176	52	1,914	.....	.....	.....	.....
Hardware	1919	4,576	5	2,499	141	515	569	694	153	.....
	1914	4,803	(2)	(2)	106	170	127	2,399	660	1,341
Iron and steel, blast furnaces	1919	9,793	.....	.....	87	.....	.....	988	1,762	6,956
	1914	5,786	.....	.....	.....	.....	.....	.....	918	4,868
Iron and steel, steel works and rolling mills	1919	73,025	8,343	.....	8,058	1,204	567	16,690	24,170	13,993
	1914	46,397	(2)	(2)	3,303	2,013	2,961	8,094	20,551	9,475
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	1919	4,778	.....	.....	7	1,019	153	3,436	31	132
	1914	2,365	(2)	(2)	341	7	60	1,957	.....	.....
Iron and steel, forgings, not made in steel works or rolling mills	1919	5,931	471	664	1,901	1,063	29	1,738	65	.....
	1914	2,308	(2)	(2)	449	234	244	1,174	41	166
Iron and steel, wrought pipe	1919	4,434	24	239	.....	1,217	31	1,581	1,342	.....
	1914	2,285	.....	.....	.....	.....	176	1,083	1,026	.....
Knit goods	1919	4,407	7	184	374	3,333	286	203	20	.....
	1914	3,411	(2)	(2)	64	205	2,935	107	100	.....
Liquors, malt	1919	3,327	33	.....	3,063	59	66	.....	106	.....
	1914	5,340	(2)	(2)	4,287	59	619	143	232	.....
Lumber and timber products	1919	3,135	132	31	181	183	570	829	1,209	.....
	1914	4,708	(2)	(2)	318	175	688	1,141	2,459	17
Lumber, planing-mill products, not including planing mills connected with sawmills	1919	4,495	101	50	242	872	1,168	1,569	492	1
	1914	5,516	(2)	(2)	502	473	2,086	1,507	948	.....
Motorcycles, bicycles, and parts	1919	2,480	.....	.....	160	130	220	1,970	.....	.....
	1914	752	.....	.....	.....	78	199	467	6	2
Paints	1919	2,197	29	10	328	1,048	86	629	67	.....
	1914	1,697	(2)	(2)	55	184	209	860	389	.....
Paper and wood pulp	1919	6,899	270	.....	1,873	.....	437	1,518	783	2,018
	1914	5,430	.....	.....	.....	.....	829	344	820	3,437
Petroleum, refining	1919	2,431	.....	.....	604	1,029	186	279	121	212
	1914	1,519	.....	.....	.....	828	406	.....	123	162
Pottery	1919	11,339	310	.....	2,895	4,352	2,733	1,045	4	.....
	1914	11,096	(2)	(2)	1,591	2,090	5,099	955	1,361	.....
Printing and publishing, book and job	1919	8,505	298	643	6,423	967	124	48	2	.....
	1914	7,978	(2)	(2)	5,420	1,006	1,240	242	70	.....
Printing and publishing, newspapers and periodicals	1919	7,027	139	73	6,567	287	357	81	75	48
	1914	7,274	(2)	(2)	5,535	408	820	423	79	.....
Rubber tires, tubes, and rubber goods, not elsewhere specified	1919	63,637	2,207	22,489	33,308	2,396	265	2,874	98	.....
	1914	21,705	(2)	(2)	3,057	5,848	99	12,297	64	340
Screws, machine	1919	4,226	3	2,463	155	702	70	753	.....	.....
	1914	1,464	(2)	(2)	1,001	.....	.....	157	306	.....
Shipbuilding, steel	1919	11,192	2,340	.....	8,600	97	65	.....	.....	.....
	1914	2,623	.....	.....	.....	.....	232	663	1,728	.....
Slaughtering and meat packing	1919	5,336	915	137	1,469	547	1,174	385	693	16
	1914	3,480	(2)	(2)	110	6	635	459	2,269	1
Stamped and enameled ware, not elsewhere specified	1919	3,834	.....	147	139	1,302	219	1,657	280	.....
	1914	2,853	(2)	(2)	65	245	393	1,660	490	.....
Steam fittings and steam and hot-water heating apparatus	1919	2,723	91	1	2,175	179	238	39	.....	.....
	1914	2,414	(2)	(2)	71	219	1,199	673	252	.....
Stoves and hot-air furnaces	1919	6,069	802	60	1,658	1,127	1,838	354	230	.....
	1914	5,041	(2)	(2)	484	871	812	2,032	842	.....
Stoves, gas and oil	1919	4,329	4	.....	2,625	1,304	29	367	.....	.....
	1914	3,534	(2)	(2)	2,360	135	81	368	590	.....
Structural ironwork, not made in steel works or rolling mills	1919	5,231	183	21	279	1,442	508	2,553	245	.....
	1914	6,657	(2)	(2)	13	948	1,584	3,027	1,085	.....
Tinware, not elsewhere specified	1919	2,608	242	.....	861	1,356	107	42	.....	.....
	1914	2,260	(2)	(2)	252	463	1,384	60	6	95
Tobacco, cigars and cigarettes	1919	10,995	1,512	1,013	1,216	6,568	402	271	12	1
	1914	12,025	(2)	(2)	4,397	1,592	5,488	464	80	4
Tools, not elsewhere specified	1919	6,961	102	749	1,307	1,988	.....	2,562	253	.....
	1914	2,227	(2)	(2)	21	1,568	35	520	83	.....
All other industries	1919	133,456	5,420	3,665	23,698	40,059	18,269	25,093	12,293	4,959
	1914	117,753	(2)	(2)	10,775	11,696	38,217	28,386	23,408	5,271

[1] Includes 48 and under for 1914.

[2] Corresponding figures not available.

[3] Not reported separately in 1914.

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.[1]	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Total for cities [2]	1919	577,271	42,142	43,058	171,125	134,876	38,564	97,460	29,941	20,105
	1914	385,608	(3)	(3)	57,842	68,747	92,067	98,650	47,354	20,948
AKRON	1919	65,054	160	21,052	36,736	3,285	1,700	1,760	257	104
	1914	24,680	(3)	(3)	4,188	5,936	953	11,873	580	1,150
ALLIANCE	1919	5,117	460	.....	989	1,465	387	1,751	38	27
	1914	2,333	(3)	(3)	306	11	1,136	107	711	62
ASHTABULA	1919	4,172	74	190	2,699	426	509	229	35	10
	1914	1,868	(3)	(3)	265	25	852	.....	615	111
BARBERTON	1919	4,762	31	579	725	1,047	124	2,241	9	6
	1914	3,118	(3)	(3)	6	19	1,201	1,245	642	5
BELLAIRE	1919	2,277	121	666	132	.....	190	426	155	587
	1914	2,603	(3)	(3)	118	19	1,099	469	36	862
BUCYRUS [4]	1919	1,861	1	.....	925	349	52	485	39	10
CAMBRIDGE	1919	1,782	552	20	277	440	28	5	460	.....
	1914	1,455	(3)	(3)	180	491	615	136	27	6
CANTON	1919	20,336	3,878	208	1,383	2,019	1,123	9,911	1,674	140
	1914	12,255	(3)	(3)	1,400	811	1,555	7,579	566	344
CHILLICOTHE	1919	1,638	8	.....	432	38	34	819	278	29
	1914	1,557	(3)	(3)	27	59	401	637	198	235
CINCINNATI	1919	69,680	8,045	2,556	26,854	21,343	4,013	5,322	1,343	204
	1914	59,861	(3)	(3)	11,975	13,526	16,330	12,713	4,410	907
CLEVELAND	1919	157,730	15,288	9,488	36,548	46,756	10,547	24,945	10,764	3,394
	1914	103,317	(3)	(3)	17,103	20,680	24,581	19,409	16,556	4,988
COLUMBUS	1919	26,751	778	737	9,225	5,454	1,482	7,729	1,075	271
	1914	17,236	(3)	(3)	5,611	1,614	3,965	4,702	1,255	89
COSHOCTON	1919	1,959	2	.....	731	1,015	162	37	12	.....
	1914	1,614	(3)	(3)	57	240	1,206	49	21	41
CUYAHOGA FALLS [4]	1919	784	1	112	163	226	30	230	20	2
DAYTON	1919	31,131	2,283	1,165	3,340	9,863	6,962	6,453	954	111
	1914	24,061	(3)	(3)	2,335	1,451	8,492	10,041	1,605	137
EAST CLEVELAND	1919	88	15	.....	8	32	3	30	.....	.....
	1914	129	(3)	(3)	2	.....	14	104	1	8
EAST LIVERPOOL	1919	4,311	6	15	1,509	1,689	1,058	.....	17	17
	1914	4,830	(3)	(3)	1,590	614	2,359	66	146	55
ELYRIA	1919	4,590	9	192	1,056	1,747	440	563	583	.....
	1914	2,735	(3)	(3)	25	988	167	762	429	364
FINDLAY	1919	1,715	11	.....	110	503	292	645	126	28
	1914	1,737	(3)	(3)	104	124	925	115	326	143
FREMONT	1919	2,999	9	10	76	1,306	140	1,238	133	87
	1914	2,063	(3)	(3)	193	118	241	1,190	318	3
HAMILTON	1919	8,553	605	596	4,661	667	225	1,760	39	.....
	1914	6,043	(3)	(3)	797	99	506	2,580	926	1,135
IRONTON	1919	1,971	100	.....	330	606	50	309	278	298
	1914	1,420	(3)	(3)	236	81	319	183	412	189
KENMORE [4]	1919	135	.....	5	1	.....	100	26	.....	3
LAKEWOOD	1919	1,821	10	2	1,659	127	6	7	10	7
	1914	1,774	(3)	(3)	35	1,238	13	77	404	.....
LANCASTER	1919	2,024	109	.....	582	1,000	167	130	9	27
	1914	1,583	(3)	(3)	40	3	1,190	224	59	67
LIMA	1919	4,901	48	7	628	2,934	199	843	233	9
	1914	4,876	(3)	(3)	98	719	1,882	1,906	259	12
LORAIN	1919	11,677	7	14	4,274	268	311	50	193	6,565
	1914	6,436	(3)	(3)	287	20	43	16	1,657	4,413
MANSFIELD	1919	4,711	327	264	138	1,832	29	2,076	45	.....
	1914	3,398	(3)	(3)	300	469	1,456	1,006	160	7
MARIETTA	1919	1,285	6	12	589	184	174	274	48	.....
	1914	1,401	(3)	(3)	58	22	523	178	608	12
MARION	1919	4,125	.....	.....	79	640	77	3,019	309	1
	1914	2,577	(3)	(3)	1,383	154	862	26	132	20
MARTINS FERRY [4]	1919	1,517	847	.....	75	7	378	108	18	84
MASSILLON	1919	2,153	458	2	48	924	129	305	132	155
	1914	1,768	(3)	(3)	57	354	744	509	98	6

[1] Includes 48 and under for 1914.
[2] Excludes Cleveland Heights and East Youngstown to avoid disclosure of individual operations.
[3] Corresponding figures not available.
[4] Not shown separately in 1914.

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.[1]	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
MIDDLETOWN	1919	6,442	5	.....	3,380	1,698	46	512	128	673
	1914	4,003	(2)	(2)	44	29	1,088	417	2,041	384
NEWARK	1919	4,570	47	489	685	487	1,359	1,331	165	7
	1914	4,583	(2)	(2)	72	892	1,638	1,778	187	16
NEW PHILADELPHIA[3]	1919	1,247	617	9	196	307	39	12	65	2
NILES[3]	1919	2,945	416	.....	645	208	141	1,274	6	255
NORWOOD	1919	8,283	146	898	3,808	2,630	272	521	4	4
	1914	5,808	(2)	(2)	1,069	1,338	2,707	656	33	5
PIQUA	1919	3,293	25	184	44	1,055	538	826	303	318
	1914	2,777	(2)	(2)	31	357	1,219	239	764	167
PORTSMOUTH	1919	5,914	4	.....	113	2,481	29	1,454	1,824	9
	1914	3,597	(2)	(2)	94	.....	268	2,869	343	23
SALEM[3]	1919	2,237	624	892	208	67	88	9	349	.....
SANDUSKY	1919	3,447	223	68	551	475	544	1,171	273	142
	1914	2,727	(2)	(2)	415	66	785	710	400	351
SPRINGFIELD	1919	12,264	174	11	1,360	2,416	395	7,670	214	24
	1914	7,868	(2)	(2)	1,010	1,227	471	4,601	508	51
STEUBENVILLE	1919	3,855	475	.....	144	505	106	2,060	143	422
	1914	4,506	(2)	(2)	720	593	33	150	2,663	398
TIFFIN	1919	2,213	16	489	109	170	926	302	166	35
	1914	2,177	(2)	(2)	31	498	331	883	404	30
TOLEDO	1919	42,090	3,436	1,582	20,903	11,294	2,131	1,464	575	705
	1914	27,076	(2)	(2)	2,258	13,645	6,399	2,675	1,300	799
WARREN	1919	2,433	16	2	204	1,733	133	291	26	28
	1914	2,862	(2)	(2)	1,665	40	444	627	68	18
YOUNGSTOWN	1919	19,414	1,605	277	1,121	754	566	3,893	5,892	5,306
	1914	15,861	(2)	(2)	1,384	94	2,384	3,930	4,784	3,285
ZANESVILLE	1919	3,014	64	265	672	409	130	944	524	6
	1914	3,035	(2)	(2)	264	143	670	1,213	702	43

[1] Includes 48 and under for 1914.

[2] Corresponding figures not available.

[3] Not shown separately in 1914.

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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—															
			No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
	Establishments.	Wage earners (average number).	Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
All industries	16,125	730,733	2,028	7,092	16,393	3,096	34,943	1,615	53,388	935	66,641	799	125,932	312	110,104	168	118,061	80	205,271
Agricultural implements	46	4,931	3	14	36	5	70	4	152	4	325	9	1,493	5	1,593	2	1,262	.....	.....
Automobile bodies and parts	237	16,670	20	72	175	59	676	34	1,117	23	1,644	12	1,867	7	2,565	3	5,540	2	3,086
Automobiles	44	29,212	.....	1	5	3	43	6	195	3	204	13	1,923	8	2,673	5	3,405	5	20,764
Automobile repairing	540	2,430	25	425	995	76	734	10	298	3	182	1	221	.....	.....	.....	.....	.....	.....
Boots and shoes, not including rubber boots and shoes	60	14,092	.....	4	10	6	72	3	79	8	681	23	3,819	8	2,860	7	5,012	1	1,559
Boxes, paper and other, not elsewhere specified	58	2,952	.....	6	16	15	224	15	552	13	905	9	1,255	.....	.....	.....	.....	.....	.....
Brass, bronze, and copper products	92	4,264	4	24	68	30	344	17	526	6	387	6	925	4	1,471	1	543	.....	.....
Bread and other bakery products	1,621	9,091	284	1,062	2,277	202	2,055	43	1,334	15	1,085	13	1,790	2	550	.....	.....	.....	.....
Brick and tile, terra-cotta, and fire-clay products	341	12,060	5	112	306	65	779	81	2,983	56	3,891	18	2,756	4	1,345	.....	.....	.....	.....
Cars and general shop construction and repairs by steam-railroad companies	117	35,245	.....	5	22	6	79	13	423	20	1,468	29	5,214	27	9,789	11	7,436	6	10,314
Cars, steam-railroad, not including operations of railroad companies	8	2,177	.....	.....	.....	.....	.....	1	27	2	144	3	383	.....	.....	2	1,623	.....	.....
Chemicals	37	3,670	.....	5	19	12	138	10	277	5	345	1	214	1	275	2	1,317	1	1,085
Clothing, men's	240	9,939	11	62	184	81	1,012	45	1,520	25	1,832	16	2,362	3	1,052	3	1,977	.....	.....
Clothing, women's	175	8,258	4	25	68	62	745	43	1,520	23	1,642	13	1,943	3	1,136	2	1,204	.....	.....
Coke, not including gas-house coke	13	3,407	.....	.....	.....	.....	.....	.....	.....	3	214	4	745	5	1,944	1	504	.....	.....
Confectionery and ice cream	380	5,451	65	191	390	61	643	33	1,073	15	1,147	14	1,869	1	329	.....	.....	.....	.....
Copper, tin, and sheet-iron work	262	2,650	26	155	349	56	675	16	479	4	253	4	498	1	396	.....	.....	.....	.....
Electrical machinery, apparatus, and supplies	189	26,672	5	48	144	40	496	38	1,311	11	798	25	4,142	11	3,762	5	3,508	6	12,511
Engines, steam, gas, and water	44	6,218	.....	9	27	6	59	7	215	8	553	5	742	5	1,560	3	1,866	1	1,196
Flour-mill and gristmill products	577	2,122	113	385	827	61	533	13	388	4	261	1	113	.....	.....	.....	.....	.....	.....
Foundry and machine-shop products	1,000	72,227	57	247	697	228	2,604	179	5,967	118	8,384	99	15,942	42	14,197	25	17,712	5	6,724
Furniture	162	8,346	11	31	96	38	501	35	1,186	30	2,150	13	2,013	2	539	1	731	1	1,130
Glass	44	10,935	.....	.....	.....	1	17	1	43	11	796	14	2,154	11	4,015	6	3,910	.....	.....
Gloves and mittens, cloth, not including gloves made in textile mills	35	2,162	.....	6	18	10	122	3	282	5	319	4	638	2	783	.....	.....	.....	.....
Hardware	50	4,576	4	15	28	9	86	9	310	4	246	7	1,141	1	303	.....	.....	1	2,462
Iron and steel, blast furnaces	42	9,793	.....	.....	.....	1	19	3	102	10	714	16	2,708	6	2,126	6	4,124	.....	.....
Iron and steel, steel works and rolling mills	86	73,025	.....	1	1	2	30	4	167	3	196	14	2,480	17	6,125	27	20,075	18	43,951
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	23	4,778	.....	2	9	4	36	4	160	2	148	6	1,036	3	1,112	1	975	1	1,302
Iron and steel forgings, not made in steel works or rolling mills	38	5,931	1	3	6	2	26	7	250	5	336	13	1,752	5	1,967	2	1,594	.....	.....
Iron and steel, wrought pipe	8	4,434	.....	.....	.....	.....	.....	3	100	.....	.....	1	239	.....	.....	2	1,581	2	2,514
Knit goods	34	4,407	1	3	9	7	104	2	98	7	494	8	1,368	6	2,334	.....	.....	.....	.....
Liquors, malt	73	3,327	.....	7	27	20	241	25	815	14	1,030	7	1,214	.....	.....	.....	.....	.....	.....
Lumber and timber products	514	3,135	13	379	770	98	1,088	18	576	3	211	3	490	.....	.....	.....	.....	.....	.....
Lumber, planing-mill products, not including planing mills connected with sawmills	378	4,495	23	200	475	99	1,158	39	1,202	10	573	6	734	1	353	.....	.....	.....	.....
Motorcycles, bicycles, and parts	9	2,480	1	.....	.....	.....	.....	.....	.....	3	221	3	509	1	374	.....	.....	1	1,376
Paints	61	2,197	.....	26	71	17	172	9	295	2	150	5	849	2	660	.....	.....	.....	.....
Paper and wood pulp	49	6,899	.....	.....	.....	3	46	14	429	12	898	14	2,085	4	1,455	1	621	1	1,365
Petroleum, refining	11	2,431	1	.....	.....	2	13	2	93	.....	.....	4	698	.....	.....	1	598	1	1,029
Pottery	95	11,339	1	7	10	7	84	19	637	22	1,572	29	5,082	8	2,605	2	1,349	.....	.....
Printing and publishing, book and job	871	8,505	176	424	1,002	175	1,986	67	2,131	17	1,236	11	1,714	1	436	.....	.....	.....	.....
Printing and publishing, newspapers and periodicals	794	7,027	253	356	899	118	1,286	37	1,153	16	1,192	9	1,301	4	1,220	1	576	.....	.....
Rubber tires, tubes, and rubber goods, not elsewhere specified	96	63,637	.....	13	38	22	249	20	737	6	469	13	2,011	12	4,427	3	1,802	7	53,904
Screws, machine	19	4,226	.....	4	9	5	76	1	37	2	123	3	415	3	1,112	.....	.....	1	2,454
Shipbuilding, steel, new vessels and repair work	9	11,192	.....	.....	.....	1	9	.....	.....	3	242	1	157	.....	.....	.....	.....	4	10,784
Slaughtering and meat packing	141	5,336	14	54	147	31	368	21	635	12	883	6	758	.....	.....	3	2,545	.....	.....
Stamped and enameled ware, not elsewhere specified	49	3,834	.....	9	27	9	104	9	294	9	574	9	1,366	4	1,469	.....	.....	.....	.....
Steam fittings and steam and hot-water heating apparatus	29	2,723	3	7	17	7	71	4	125	3	208	3	517	.....	.....	1	569	1	1,216
Stoves and hot-air furnaces	67	6,069	1	11	27	13	150	11	340	14	1,026	13	1,924	2	748	1	575	1	1,279
Stoves, gas and oil	34	4,329	.....	15	45	4	33	6	203	2	124	2	406	4	1,246	.....	.....	1	2,272
Structural ironwork, not made in steel works or rolling mills	93	5,231	1	20	52	31	326	17	521	9	662	12	1,762	1	269	2	1,639	.....	.....
Tinware, not elsewhere specified	14	2,608	.....	2	5	2	30	2	83	1	96	2	355	4	1,514	1	525	.....	.....
Tobacco, cigars and cigarettes	676	10,995	255	271	529	62	773	34	1,169	22	1,650	28	4,616	2	629	1	537	1	1,092
Tools, not elsewhere specified	149	6,961	8	27	63	51	632	38	1,163	12	863	10	1,672	1	472	1	972	1	1,124
All other industries	5,285	149,032	639	2,347	5,398	1,171	13,126	535	17,616	295	20,894	192	29,552	68	24,314	28	19,854	10	18,278
Total for cities[1]	10,537	577,271	1,263	4,104	10,207	2,273	25,699	1,193	39,156	661	47,341	599	94,413	242	84,152	134	96,693	68	179,610
AKRON	304	65,054	14	130	351	58	691	43	1,430	23	1,631	19	3,058	7	2,808	4	3,102	6	51,983
ALLIANCE	74	5,117	13	34	75	9	95	8	267	1	89	3	563	3	1,068	2	1,568	1	1,392
ASHTABULA	62	4,172	3	36	79	7	79	2	71	4	285	4	689	5	1,365	.....	.....	1	1,604
BARBERTON	32	4,762	6	6	10	5	42	3	90	3	201	2	317	2	512	5	3,590	.....	.....
BELLAIRE	45	2,277	5	18	38	10	104	4	123	.....	.....	5	836	3	1,176	.....	.....	.....	.....

[1] Excludes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.

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—															
			No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
	Establishments.	Wage earners (average number).	Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
BUCYRUS	43	1,861	6	16	25	12	130	2	60	1	54	3	391	3	1,201	.....	.....	.....	.....
CAMBRIDGE	32	1,782	.....	19	57	7	93	.....	.....	2	150	1	234	2	699	1	549	.....	.....
CANTON	287	20,336	26	105	231	70	751	40	1,304	15	1,072	12	1,369	13	4,405	2	1,131	4	9,573
CHILLICOTHE	35	1,638	1	18	53	8	79	3	97	1	72	2	318	1	394	1	625	.....	.....
CINCINNATI	2,239	69,680	280	837	2,120	518	5,907	276	9,075	163	11,774	113	17,247	39	13,952	12	8,389	1	1,216
CLEVELAND	2,946	157,730	401	1,123	2,746	626	7,179	323	10,569	171	12,161	163	25,890	67	23,260	48	35,805	24	40,120
COLUMBUS	690	26,751	86	264	692	163	1,871	83	2,678	41	2,908	35	5,062	9	3,163	7	4,446	2	5,931
COSHOCTON	45	1,959	5	17	51	7	79	7	245	3	206	4	676	2	702	.....	.....	.....	.....
CUYAHOGA FALLS	30	784	.....	16	39	6	71	4	129	.....	.....	4	545	.....	.....	.....	.....	.....	.....
DAYTON	571	31,131	51	222	562	118	1,207	83	2,654	46	3,423	34	5,341	8	2,459	4	2,974	5	12,421
EAST CLEVELAND	17	88	2	12	35	2	25	1	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EAST LIVERPOOL	67	4,311	2	26	62	15	193	5	181	6	449	9	1,368	2	709	2	1,349	.....	.....
ELYRIA	75	4,590	6	36	79	10	95	1	22	10	669	7	1,108	3	926	2	1,691	.....	.....
FINDLAY	75	1,715	9	35	83	16	150	8	235	1	66	6	1,181	.....	.....	.....	.....	.....	.....
FREMONT	53	2,909	2	20	55	16	194	5	122	5	374	1	122	2	782	2	1,350	.....	.....
HAMILTON	130	8,553	19	49	116	27	290	13	468	6	424	7	1,081	4	1,207	2	1,212	3	3,755
IRONTON	52	1,971	1	16	38	15	176	9	323	5	415	6	1,019	.....	.....	.....	.....	.....	.....
KENMORE	7	135	.....	5	15	1	20	.....	.....	1	100	.....	.....	.....	.....	.....	.....	.....	.....
LAKEWOOD	33	1,821	8	15	35	7	65	1	28	1	83	.....	.....	.....	.....	.....	.....	1	1,610
LANCASTER	43	2,024	3	15	30	13	122	1	27	4	314	6	1,114	1	417	.....	.....	.....	.....
LIMA	108	4,901	8	43	110	29	310	15	519	5	309	3	390	2	736	2	1,434	1	1,093
LORAIN	55	11,677	9	15	34	18	195	4	111	1	82	2	361	3	1,050	1	739	2	9,105
MANSFIELD	132	4,711	18	53	126	33	379	8	264	8	560	8	1,268	2	852	2	1,262	.....	.....
MARIETTA	59	1,285	5	29	73	16	181	2	60	2	154	4	553	1	264	.....	.....	.....	.....
MARION	70	4,125	9	27	73	15	152	7	265	3	223	5	813	2	834	1	673	1	1,092
MARTINS FERRY	40	1,517	10	16	31	5	55	3	90	2	155	3	526	.....	.....	1	660	.....	.....
MASSILLON	80	2,153	9	43	99	11	139	7	242	5	319	2	239	3	1,115	.....	.....	.....	.....
MIDDLETOWN	56	6,442	5	19	48	11	139	6	206	6	400	6	904	1	373	.....	.....	2	4,372
NEWARK	79	4,570	8	30	79	18	188	10	349	8	533	1	109	1	459	1	536	2	2,287
NEW PHILADELPHIA	43	1,247	4	26	56	8	66	2	61	.....	.....	1	150	1	297	1	617	.....	.....
NILES	40	2,945	2	18	40	4	44	5	162	3	242	4	558	3	956	1	943	.....	.....
NORWOOD	70	8,283	5	30	88	6	76	5	152	2	172	11	1,719	6	1,927	4	3,019	1	1,130
PIQUA	66	3,203	6	26	59	14	157	5	156	3	226	7	1,152	5	1,543	.....	.....	.....	.....
PORTSMOUTH	60	5,914	9	24	73	9	83	8	287	3	228	2	292	1	277	2	1,540	2	3,134
SALEM	36	2,237	2	14	38	8	88	4	140	3	198	1	227	3	922	1	624	.....	.....
SANDUSKY	115	3,447	20	34	87	24	311	18	565	13	942	3	611	3	931	.....	.....	.....	.....
SPRINGFIELD	206	12,204	27	70	201	42	445	25	794	14	1,068	19	3,073	4	1,304	4	2,451	1	2,928
STEUBENVILLE	57	3,855	3	26	65	17	172	3	94	1	71	4	677	2	716	.....	.....	1	2,060
TIFFIN	75	2,213	10	35	85	16	169	4	126	5	343	3	467	1	484	1	539	.....	.....
TOLEDO	671	42,090	80	239	624	159	1,860	84	2,876	40	2,787	42	6,647	15	5,555	10	7,195	2	14,546
WARREN	96	2,433	18	44	97	16	165	6	199	3	185	6	832	3	955	.....	.....	.....	.....
YOUNGSTOWN	239	19,414	38	110	252	33	348	24	703	10	689	9	1,661	2	733	8	6,080	5	8,258
ZANESVILLE	97	3,014	9	43	92	15	179	13	419	8	535	7	1,155	2	634	.....	.....	.....	.....

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	16,125	15,658	15,138	730,733	510,435	446,934	$5,100,808,728	$1,782,808,279	$1,437,935,817	$2,188,360,857	$762,020,264	$613,733,870
Less than $5,000	3,192	5,105	5,095	2,102	6,151	7,021	8,120,780	12,447,953	12,198,229	5,074,894	7,755,381	7,811,667
$5,000 to $20,000	4,452	4,614	4,474	12,089	20,906	23,571	49,105,812	47,806,840	46,028,999	27,477,990	27,043,887	26,309,694
$20,000 to $100,000	4,270	3,464	3,405	44,277	61,756	64,853	201,110,443	159,828,466	156,080,099	100,752,506	79,804,644	76,806,053
$100,000 to $500,000	2,674	1,823	1,919	123,388	229,226	208,656	607,923,301	411,257,188	557,384,719	298,904,714	308,732,635	258,737,951
$500,000 to $1,000,000	673	352		85,097			475,436,292	244,522,194		227,190,031		
$1,000,000 and over	864	300	245	463,780	192,306	142,833	3,758,612,100	906,945,638	666,243,771	1,528,960,722	338,689,717	244,068,505
	PER CENT DISTRIBUTION.											
All classes	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than $5,000	19.8	32.6	33.7	0.3	1.2	1.6	0.2	0.7	0.8	0.2	1.0	1.3
$5,000 to $20,000	27.6	29.5	29.6	1.7	4.1	5.3	1.0	2.7	3.2	1.3	3.5	4.3
$20,000 to $100,000	26.5	22.1	22.5	6.1	12.1	14.5	3.9	9.0	10.9	4.6	10.5	12.5
$100,000 to $500,000	16.6	11.6	12.7	16.9	44.9	46.6	11.9	23.1	38.8	13.7	40.5	42.2
$500,000 to $1,000,000	4.2	2.2		11.6			9.3	13.7		10.4		
$1,000,000 and over	5.4	1.9	1.6	63.5	37.7	32.0	73.7	50.9	46.3	69.9	44.4	39.8

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	46	59	100.0	100.0	4,931	5,464	100.0	100.0	$26,556,031	$17,484,615	100.0	100.0	$13,589,296	$9,674,830	100.0	100.0
Less than $5,000	7	10	15.2	16.9	10	8	0.2	0.1	23,575	17,421	0.1	0.1	11,916	11,353	0.1	0.1
$5,000 to $20,000	9	15	19.6	25.4	24	75	0.5	1.4	101,049	129,534	0.4	0.7	47,421	76,840	0.3	0.8
$20,000 to $100,000	5	11	10.9	18.6	57	287	1.2	5.3	269,725	638,360	1.0	3.7	127,792	344,419	0.9	3.6
$100,000 to $500,000	8	10	17.4	16.9	424	[1] 3,024	8.6	55.3	2,022,773	3,611,494	7.6	20.7	1,102,297	[1] 4,723,398	8.1	48.8
$500,000 to $1,000,000	8	9	17.4	15.3	1,271	.....	25.8	.....	5,776,757	5,560,310	21.8	31.8	2,748,885	.....	20.2	.....
$1,000,000 and over	9	4	19.6	6.8	3,145	2,070	63.8	37.9	18,362,152	7,527,496	69.1	43.1	9,550,985	4,518,820	70.3	46.7
AUTOMOBILE BODIES AND PARTS	237	63	100.0	100.0	16,670	4,128	100.0	100.0	92,390,646	9,556,097	100.0	100.0	39,848,697	5,096,922	100.0	100.0
Less than $5,000	28	9	11.8	14.3	12	13	0.1	0.3	64,818	31,469	0.1	0.3	37,753	23,279	0.1	0.5
$5,000 to $20,000	61	18	25.7	28.6	173	110	1.0	2.7	635,926	201,776	0.7	2.1	387,558	124,754	1.0	2.4
$20,000 to $100,000	65	19	27.4	30.2	855	339	5.1	8.2	2,987,840	956,733	3.2	10.0	1,788,220	487,709	4.5	9.6
$100,000 to $500,000	54	[1] 14	22.8	22.2	2,765	[1] 1,301	16.6	31.5	11,937,310	[1] 4,130,621	12.9	43.2	6,327,256	[1] 1,911,835	15.9	37.5
$500,000 to $1,000,000	8	.....	3.4	.....	1,215	.....	7.3	.....	5,382,785	.....	5.8	.....	3,053,925	.....	7.7	.....
$1,000,000 and over	21	3	8.9	4.8	11,650	2,365	69.9	57.3	71,381,967	4,235,498	77.3	44.3	28,253,985	2,549,285	70.9	50.0
AUTOMOBILES	44	39	100.0	100.0	29,212	14,624	100.0	100.0	287,045,832	76,154,488	100.0	100.0	88,606,871	25,283,166	100.0	100.0
Less than $100,000	3	10	6.8	25.6	27	82	0.1	0.6	153,212	321,609	0.1	0.4	47,699	129,428	0.1	0.5
$100,000 to $500,000	10	10	22.7	25.6	462	[1] 1,502	1.6	10.3	2,594,485	1,800,635	0.9	2.4	868,042	[1] 2,357,370	1.0	9.3
$500,000 to $1,000,000	3	7	6.8	17.9	275	.....	0.9	.....	2,443,057	5,014,859	0.9	6.6	910,785	.....	1.0	.....
$1,000,000 and over	28	12	63.6	30.8	28,448	13,040	97.4	89.2	281,855,078	69,017,385	98.2	90.6	86,780,345	22,796,368	97.9	90.2
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES	60	62	100.0	100.0	14,092	14,461	100.0	100.0	71,354,850	32,773,922	100.0	100.0	30,552,366	13,526,326	100.0	100.0
Less than $20,000	6	6	10.0	9.7	28	43	0.2	0.3	61,166	31,126	0.1	0.1	38,190	19,723	0.1	0.1
$20,000 to $100,000	6	11	10.0	17.7	167	304	1.2	2.1	268,943	452,826	0.4	1.4	150,815	216,611	0.5	1.6
$100,000 to $500,000	9	28	15.0	45.2	666	[1] 6,418	4.7	44.4	3,085,892	9,627,797	4.3	29.4	1,067,316	[1] 6,295,662	3.5	46.5
$500,000 to $1,000,000	13	7	21.7	11.3	1,833	.....	13.0	.....	9,221,779	4,725,193	12.9	14.4	3,874,285	.....	12.7	.....
$1,000,000 and over	26	10	43.3	16.1	11,398	7,696	80.9	53.2	58,717,070	17,936,980	82.3	54.7	25,421,760	6,994,330	83.2	51.7
BRASS, BRONZE, AND COPPER PRODUCTS	92	84	100.0	100.0	4,264	2,277	100.0	100.0	27,801,760	7,843,092	100.0	100.0	11,624,227	3,653,547	100.0	100.0
Less than $5,000	5	13	5.4	15.5	1	13	(2)	0.6	14,274	33,455	0.1	0.4	8,586	7,089	0.1	0.2
$5,000 to $20,000	15	23	16.3	27.4	38	100	0.9	4.4	161,315	252,175	0.6	3.2	98,369	136,408	0.8	3.7
$20,000 to $100,000	30	31	32.6	36.9	265	423	6.2	18.6	1,523,983	1,457,952	5.5	18.6	635,482	591,493	5.5	16.2
$100,000 to $500,000	28	[3] 17	30.4	20.2	899	[3] 1,741	21.1	76.5	6,246,823	[3] 6,099,510	22.5	77.8	2,534,843	[3] 2,918,557	21.8	79.9
$500,000 to $1,000,000	8	.....	8.7	.....	841	.....	19.7	.....	5,625,350	.....	20.2	.....	1,845,513	.....	15.9	.....
$1,000,000 and over	6	.....	6.5	.....	2,220	.....	52.1	.....	14,230,010	.....	51.2	.....	6,501,434	.....	55.9	.....
BREAD AND OTHER BAKERY PRODUCTS	1,621	1,634	100.0	100.0	9,091	7,665	100.0	100.0	78,819,001	30,560,881	100.0	100.0	28,863,456	13,265,708	100.0	100.0
Less than $5,000	209	608	12.9	37.2	64	444	0.7	5.8	587,877	1,800,731	0.7	5.9	232,790	813,222	0.8	6.1
$5,000 to $20,000	765	781	47.2	47.8	1,015	1,933	11.2	25.2	8,550,353	7,499,783	10.8	24.5	3,135,022	3,357,491	10.9	25.3
$20,000 to $100,000	523	192	32.3	11.8	2,514	1,806	27.7	23.6	21,035,602	6,997,065	26.7	22.9	7,069,242	2,777,910	24.5	20.9
$100,000 to $500,000	92	46	5.7	2.8	2,075	[1] 3,482	22.8	45.4	18,183,397	9,463,665	23.1	31.0	6,260,000	[1] 6,317,085	21.7	47.6
$500,000 to $1,000,000	21	[4] 7	1.3	0.4	1,666	.....	18.3	.....	15,452,597	4,799,637	19.6	15.7	6,160,345	.....	21.3	.....
$1,000,000 and over	11	.....	0.7	.....	1,757	.....	19.3	.....	15,009,165	.....	19.0	.....	6,006,057	.....	20.8	.....
BRICK AND TILE, TERRA-COTTA AND FIRE-CLAY PRODUCTS	341	450	100.0	100.0	12,060	16,238	100.0	100.0	32,172,576	23,375,689	100.0	100.0	22,211,905	16,167,536	100.0	100.0
Less than $5,000	41	145	12.0	32.2	61	335	0.5	2.1	116,206	381,164	0.4	1.6	84,339	289,012	0.4	1.8
$5,000 to $20,000	95	117	27.9	26.0	407	1,043	3.4	6.4	888,237	1,153,669	2.8	4.9	628,248	878,623	2.8	5.4
$20,000 to $100,000	97	120	28.4	26.7	2,571	4,889	21.3	30.1	5,137,021	6,397,273	16.0	27.4	3,430,454	4,498,757	15.4	27.8
$100,000 to $500,000	100	64	29.3	14.2	7,093	[1] 9,971	58.8	61.4	20,161,059	12,222,107	62.7	52.3	14,016,304	[1] 10,501,144	63.1	65.0
$500,000 and over	8	4	2.3	0.9	1,928	.....	16.0	.....	5,870,053	3,221,476	18.2	13.8	4,052,560	.....	18.2	.....
BUTTER	141	143	100.0	100.0	1,362	1,099	100.0	100.0	41,061,993	14,938,608	100.0	100.0	6,334,790	2,519,943	100.0	100.0
Less than $5,000	5	9	3.5	6.3	2	5	0.1	0.5	13,162	30,811	(2)	0.2	1,626	5,833	(2)	0.2
$5,000 to $20,000	12	31	8.5	21.7	8	43	0.6	3.9	156,662	425,126	0.4	2.8	25,079	90,942	0.4	3.6
$20,000 to $100,000	54	69	38.3	48.3	162	247	11.9	22.5	3,090,291	3,199,553	7.5	21.4	420,848	465,447	6.8	18.5
$100,000 to $500,000	47	29	33.3	20.3	465	[3] 804	34.1	73.2	10,774,330	6,724,338	26.2	45.0	1,307,184	[3] 1,957,721	20.6	77.7
$500,000 to $1,000,000	14	[4] 5	9.9	3.5	337	.....	24.7	.....	11,194,827	[4] 4,558,280	27.3	30.5	1,725,404	.....	27.2	.....
$1,000,000 and over	9	.....	6.4	.....	388	.....	28.5	.....	15,832,221	.....	38.6	.....	2,845,649	.....	44.9	.....
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM-RAILROAD COMPANIES	117	88	100.0	100.0	35,245	21,639	100.0	100.0	96,483,946	33,286,205	100.0	100.0	56,893,898	17,232,484	100.0	100.0
Less than $20,000	7	.....	6.0	.....	46	.....	0.1	.....	103,797	.....	0.1	.....	66,401	.....	0.1	.....
$20,000 to $100,000	14	[5] 29	12.0	33.0	360	[5] 1,193	1.0	5.5	819,163	[5] 1,559,199	0.8	4.7	613,404	[5] 984,916	1.1	5.7
$100,000 to $500,000	47	38	40.2	43.2	5,731	[1] 13,798	16.3	63.8	13,474,148	9,981,098	14.0	30.0	9,617,031	[1] 10,769,600	16.9	62.5
$500,000 to $1,000,000	18	16	15.4	18.2	5,362	.....	15.2	.....	13,168,050	10,166,151	13.6	30.5	8,297,646	.....	14.6	.....
$1,000,000 and over	31	5	26.5	5.7	23,746	6,648	67.4	30.7	68,918,788	11,579,757	71.4	34.8	38,299,416	5,477,968	67.3	31.8
CHEMICALS	37	29	100.0	100.0	3,670	2,017	100.0	100.0	32,719,466	11,388,140	100.0	100.0	17,423,937	4,662,147	100.0	100.0
Less than $100,000	7	14	18.9	48.3	46	74	1.3	3.7	304,301	365,500	0.9	3.2	205,996	206,340	1.2	4.4
$100,000 to $500,000	19	[1] 10	51.4	34.5	446	[1] 275	12.2	13.6	4,715,279	[1] 2,585,756	14.4	22.7	2,558,083	[1] 899,744	14.7	19.3
$500,000 to $1,000,000	5	.....	13.5	.....	425	.....	11.6	.....	3,295,555	.....	10.1	.....	2,153,236	.....	12.4	.....
$1,000,000 and over	6	5	16.2	17.2	2,753	1,668	75.0	82.7	24,404,331	8,436,884	74.6	74.1	12,506,622	3,556,063	71.8	76.3

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

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
CLOTHING, MEN'S	246	224	100.0	100.0	9,939	8,691	100.0	100.0	$58,169,320	$24,063,468	100.0	100.0	$28,098,699	$12,071,215	100.0	100.0
Less than $5,000	35	71	14.2	31.7	61	358	0.6	4.1	104,501	164,831	0.2	0.7	93,632	151,718	0.3	1.3
$5,000 to $20,000	56	56	22.8	25.0	512	953	5.2	11.0	636,996	553,200	1.1	2.3	571,646	467,672	2.0	3.9
$20,000 to $100,000	68	48	27.6	21.4	1,044	1,566	10.5	18.0	3,094,640	2,565,695	5.3	10.7	1,799,142	1,414,881	6.4	11.7
$100,000 to $500,000	55	39	22.4	17.4	2,340	[1] 5,814	23.5	66.9	12,582,345	9,440,715	21.6	39.2	5,600,853	[1] 10,036,944	19.9	83.1
$500,000 to $1,000,000	18	[2] 10	7.3	4.5	1,853	.....	18.6	.....	13,075,534	[2] 11,339,027	22.5	47.1	6,430,250	.....	22.9	.....
$1,000,000 and over	14	.....	5.7	.....	4,129	.....	41.5	.....	28,675,304	.....	49.3	.....	13,597,176	.....	48.4	.....
CLOTHING, WOMEN'S	175	170	100.0	100.0	8,258	9,775	100.0	100.0	48,703,704	22,881,753	100.0	100.0	22,626,684	10,791,914	100.0	100.0
Less than $5,000	11	38	6.3	22.4	11	121	0.1	1.2	28,756	87,497	0.1	0.4	23,658	76,978	0.1	0.7
$5,000 to $20,000	29	29	16.6	17.1	182	211	2.2	2.2	339,567	310,333	0.7	1.4	253,291	193,533	1.1	1.8
$20,000 to $100,000	54	56	30.9	32.9	966	1,413	11.7	14.5	3,252,778	3,003,293	6.7	13.4	1,698,086	1,412,576	7.5	13.1
$100,000 to $500,000	55	37	31.4	21.8	2,248	[3] 5,658	27.2	57.9	13,534,158	7,921,178	27.8	34.6	5,348,642	[3] 5,528,331	23.6	51.2
$500,000 to $1,000,000	16	6	9.1	3.5	1,652	.....	20.0	.....	10,571,574	4,076,796	21.7	17.8	4,974,859	.....	22.0	.....
$1,000,000 and over	10	4	5.7	2.4	3,199	2,372	38.7	24.3	20,976,871	7,422,656	43.1	32.4	10,328,148	3,580,496	45.6	33.2
COFFEE AND SPICE, ROASTING AND GRINDING	43	35	100.0	100.0	1,088	822	100.0	100.0	29,271,332	13,312,493	100.0	100.0	6,394,431	3,128,109	100.0	100.0
$5,000 to $20,000	5	[4] 7	11.6	20.0	3	[4] 14	0.3	1.7	59,701	[4] 58,351	0.2	0.4	19,564	[4] 18,735	0.3	0.6
$20,000 to $100,000	8	10	18.6	28.6	40	52	3.7	6.3	608,099	559,877	2.1	4.2	135,574	162,226	2.1	5.2
$100,000 to $500,000	16	9	37.2	25.7	140	[3] 431	12.9	52.4	3,746,908	2,248,075	12.8	16.9	886,007	[3] 1,096,610	13.9	35.1
$500,000 to $1,000,000	4	5	9.3	14.3	123	.....	11.3	.....	3,001,968	2,947,467	10.3	22.1	546,989	.....	8.6	.....
$1,000,000 and over	10	4	23.3	11.4	782	325	71.9	39.5	21,854,656	7,498,723	74.7	56.3	4,806,297	1,850,538	75.2	59.2
CONFECTIONERY AND ICE CREAM [5]	380	292	100.0	100.0	5,451	3,965	100.0	100.0	39,185,084	14,341,668	100.0	100.0	17,363,305	5,979,028	100.0	100.0
Less than $5,000	82	95	21.6	32.5	38	99	0.7	2.5	198,836	261,409	0.5	1.8	94,225	131,888	0.5	2.2
$5,000 to $20,000	120	93	31.6	31.8	188	272	3.4	6.9	1,244,510	948,376	3.2	6.6	557,352	429,149	3.2	7.2
$20,000 to $100,000	97	74	25.5	25.3	624	1,030	11.4	26.0	4,546,351	3,589,453	11.6	25.0	1,809,585	1,507,797	10.4	25.2
$100,000 to $500,000	58	24	15.3	8.2	1,960	[3] 2,564	36.0	64.7	12,866,924	5,589,586	32.8	39.0	5,476,170	[3] 3,910,194	31.5	65.4
$500,000 to $1,000,000	15	6	3.9	2.1	1,486	.....	27.3	.....	9,432,230	3,952,844	24.1	27.6	4,100,487	.....	23.6	.....
$1,000,000 and over	8	.....	2.1	.....	1,155	.....	21.2	.....	10,895,733	.....	27.8	.....	5,325,486	.....	30.7	.....
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES	189	119	100.0	100.0	26,672	12,695	100.0	100.0	156,924,143	36,120,978	100.0	100.0	84,626,936	18,638,730	100.0	100.0
Less than $5,000	13	22	6.9	18.5	20	35	0.1	0.3	36,224	60,755	(6)	0.2	18,807	29,286	(6)	0.2
$5,000 to $20,000	30	22	15.9	18.5	86	101	0.3	0.8	327,750	231,162	0.2	0.6	152,976	139,649	0.2	0.7
$20,000 to $100,000	49	32	25.9	26.9	641	572	2.4	4.5	2,543,258	1,604,114	1.6	4.4	1,359,159	865,200	1.6	4.6
$100,000 to $500,000	57	27	30.2	22.7	3,160	[3] 3,995	11.8	31.5	13,617,482	6,007,870	8.7	16.6	7,882,116	[3] 5,578,597	9.3	29.9
$500,000 to $1,000,000	13	6	6.9	5.0	2,213	.....	8.3	.....	9,369,538	3,685,727	6.0	10.2	5,085,811	.....	6.0	.....
$1,000,000 and over	27	10	14.3	8.4	20,552	7,992	77.1	63.0	131,029,891	24,531,350	83.5	67.9	70,128,067	12,025,998	82.9	64.5
ENGINES, STEAM, GAS, AND WATER	44	47	100.0	100.0	6,218	2,962	100.0	100.0	42,850,677	6,861,351	100.0	100.0	22,506,896	4,024,147	100.0	100.0
Less than $20,000	7	11	15.9	23.4	15	47	0.2	1.6	61,995	105,372	0.1	1.5	38,993	57,261	0.2	1.4
$20,000 to $100,000	11	19	25.0	40.4	195	474	3.1	16.0	605,948	1,080,294	1.4	15.7	350,122	618,085	1.6	15.4
$100,000 to $500,000	11	[1] 17	25.0	36.2	567	[1] 2,441	9.1	82.4	2,489,161	[1] 5,675,685	5.8	82.7	1,297,990	[1] 3,348,801	5.8	83.2
$500,000 to $1,000,000	6	.....	13.6	.....	819	.....	13.2	.....	4,320,338	.....	10.1	.....	2,513,847	.....	11.2	.....
$1,000,000 and over	9	.....	20.5	.....	4,622	.....	74.3	.....	35,373,235	.....	82.5	.....	18,305,944	.....	81.3	.....
FLOUR-MILL AND GRISTMILL PRODUCTS	577	649	100.0	100.0	2,122	2,363	100.0	100.0	89,396,619	45,171,200	100.0	100.0	12,294,538	6,213,814	100.0	100.0
Less than $5,000	34	61	5.9	9.4	8	32	0.4	1.4	96,029	178,668	0.1	0.4	18,414	39,578	0.1	0.6
$5,000 to $20,000	121	239	21.0	36.8	67	200	3.2	12.3	1,528,246	2,920,130	1.7	6.5	269,105	532,354	2.2	8.6
$20,000 to $100,000	289	279	50.1	43.0	557	870	26.2	36.8	14,233,331	12,458,066	15.9	27.6	2,274,711	2,125,091	18.5	34.2
$100,000 to $500,000	103	56	17.9	8.6	584	[3] 659	27.5	27.9	18,810,440	11,136,893	21.0	24.7	2,777,662	[3] 1,900,130	22.6	30.6
$500,000 to $1,000,000	9	5	1.6	0.8	127	.....	6.0	.....	6,464,333	3,385,544	7.2	7.5	761,908	.....	6.2	.....
$1,000,000 and over	21	9	3.6	1.4	779	512	36.7	21.7	48,264,240	15,091,899	54.0	33.4	6,192,738	1,616,661	50.4	26.0
FOUNDRY AND MACHINE-SHOP PRODUCTS [7]	1,162	992	100.0	100.0	87,803	51,553	100.0	100.0	425,497,682	122,816,681	100.0	100.0	250,311,011	72,472,448	100.0	100.0
Less than $5,000	129	170	11.1	17.1	108	221	0.1	0.4	327,962	438,118	0.1	0.4	224,453	305,314	0.1	0.4
$5,000 to $20,000	212	255	18.2	25.7	912	1,354	1.0	2.6	3,443,942	2,832,314	0.8	2.3	2,169,798	1,905,927	0.9	2.6
$20,000 to $100,000	309	301	26.6	30.3	4,439	6,977	5.1	13.5	15,882,036	14,420,159	3.7	11.7	10,047,255	8,591,087	4.0	11.9
$100,000 to $500,000	306	208	26.3	21.0	17,248	[3] 33,626	19.6	65.2	71,861,387	45,819,951	16.9	37.3	43,017,262	[3] 45,151,249	17.2	62.3
$500,000 to $1,000,000	96	44	8.3	4.4	14,093	.....	16.1	.....	68,445,520	33,017,377	16.1	26.9	40,023,352	.....	16.0	.....
$1,000,000 and over	110	14	9.5	1.4	51,003	9,375	58.1	18.2	265,536,335	26,288,762	62.4	21.4	155,328,891	16,518,871	61.9	22.8
FURNITURE	162	209	100.0	100.0	8,346	7,750	100.0	100.0	35,224,313	16,411,298	100.0	100.0	20,644,770	9,120,723	100.0	100.0
Less than $5,000	17	37	10.5	17.7	10	39	0.1	0.5	32,565	87,011	0.1	0.5	20,123	59,142	0.1	0.6
$5,000 to $20,000	25	50	15.4	23.9	103	308	1.3	4.0	296,685	550,283	0.8	3.4	176,547	333,215	0.9	3.7
$20,000 to $100,000	44	78	27.2	37.3	728	1,991	8.7	25.7	2,441,748	3,786,771	6.9	23.1	1,353,420	2,061,218	6.6	22.6
$100,000 to $500,000	64	[2] 44	39.5	21.1	3,338	[2] 5,412	46.0	69.8	14,981,109	[2] 11,987,233	42.5	73.0	8,283,807	[2] 6,667,148	40.1	73.1
$500,000 to $1,000,000	8	.....	4.9	.....	1,267	.....	15.2	.....	5,783,390	.....	16.4	.....	3,456,300	.....	16.7	.....
$1,000,000 and over	4	.....	2.5	.....	2,400	.....	28.8	.....	11,688,816	.....	33.2	.....	7,354,568	.....	35.6	.....
GLASS	44	39	100.0	100.0	10,935	10,997	100.0	100.0	35,240,877	19,191,342	100.0	100.0	22,588,480	12,145,665	100.0	100.0
$20,000 to $100,000	.....	4	.....	10.3	.....	113	.....	1.0	.....	293,572	.....	1.5	.....	175,671	.....	1.4
$100,000 to $500,000	26	22	59.1	56.4	2,872	[3] 7,405	26.3	67.3	7,777,398	5,683,869	22.1	29.6	5,273,908	[3] 7,034,747	23.3	57.9
$500,000 to $1,000,000	7	9	15.9	23.1	2,300	.....	21.0	.....	5,377,824	5,213,672	15.3	27.2	3,641,493	.....	16.1	.....
$1,000,000 and over	11	4	25.0	10.3	5,763	3,479	52.7	31.6	22,085,655	8,000,229	62.7	41.7	13,673,079	4,935,247	60.5	40.6

[1] Includes the groups "$500,000 to $1,000,000," and "$1,000,000 and over."
[2] Includes the group "$1,000,000 and over."
[3] Includes the group "$500,000 to $1,000,000."
[4] Includes the group "Less than $5,000."
[5] Includes "chewing gum" in 1914.
[6] Less than one-tenth of 1 per cent.
[7] Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."

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
IRON AND STEEL, BLAST FURNACES	42	33	100.0	100.0	9,793	5,786	100.0	100.0	$179,233,435	$72,969,368	100.0	100.0	$41,547,328	$12,230,844	100.0	100.0
Less than $500,000	6	8	14.3	24.2	251	[1] 1,112	2.6	19.2	2,071,580	1,875,855	1.2	2.6	516,418	[1] 1,050,302	1.2	8.6
$500,000 to $1,000,000	4	8	9.5	24.2	270	.....	2.8	.....	2,451,245	6,187,196	1.4	8.5	573,948	.....	1.4	.....
$1,000,000 and over	32	17	76.2	51.5	9,272	4,674	94.7	80.8	174,710,610	64,906,317	97.5	88.9	40,456,962	11,180,542	97.4	91.4
IRON AND STEEL, STEEL WORKS AND ROLLING MILLS	86	70	100.0	100.0	73,025	46,397	100.0	100.0	626,370,025	205,023,391	100.0	100.0	245,310,352	65,346,900	100.0	100.0
Less than $100,000	3	5	3.5	7.1	31	131	(2)	0.3	155,073	179,847	(2)	0.1	85,988	100,028	(2)	0.2
$100,000 to $500,000	7	15	8.1	21.4	474	[1] 4,736	0.6	10.2	1,946,017	6,912,871	0.3	3.4	929,217	[1] 5,617,159	0.4	8.6
$500,000 to $1,000,000	7	8	8.1	11.4	1,035	.....	1.4	.....	4,920,388	6,255,711	0.8	3.1	2,712,649	.....	1.1	.....
$1,000,000 and over	69	42	80.2	60.0	71,485	41,530	97.9	89.5	619,347,947	191,674,962	98.9	93.5	241,582,498	59,629,713	98.5	91.2
LEATHER, TANNED, CURRIED, AND FINISHED	24	28	100.0	100.0	1,565	1,605	100.0	100.0	25,008,070	11,627,916	100.0	100.0	6,190,279	3,121,663	100.0	100.0
$5,000 to $20,000	.....	[3] 5	.....	17.9	.....	[3] 13	.....	0.8	.....	[3] 46,558	.....	0.4	.....	[3] 8,599	.....	0.3
$20,000 to $100,000	[3] 6	4	25.0	14.3	[3] 40	25	2.6	1.6	[3] 202,317	135,820	0.8	1.2	[3] 73,715	74,788	1.2	2.4
$100,000 to $500,000	10	13	41.7	46.4	221	[4] 1,567	14.1	97.6	3,016,681	3,224,167	12.1	27.7	762,323	[4] 3,038,276	12.3	97.3
$500,000 to $1,000,000	3	[5] 6	12.5	21.4	222	.....	14.2	.....	2,356,136	[5] 8,221,371	9.4	70.7	1,022,635	.....	16.5	.....
$1,000,000 and over	5	.....	20.8	.....	1,082	.....	69.1	.....	19,432,936	.....	77.7	.....	4,331,606	.....	70.0	.....
LIQUORS, MALT	73	101	100.0	100.0	3,327	5,340	100.0	100.0	25,161,227	31,990,274	100.0	100.0	18,065,655	22,799,792	100.0	100.0
Less than $5,000	.....	3	.....	3.0	.....	2	.....	(2)	.....	5,047	.....	(2)	.....	3,299	.....	(2)
$5,000 to $20,000	[3] 4	4	5.5	4.0	[3] 12	17	0.4	0.3	[3] 45,241	49,665	0.2	0.2	[3] 26,683	35,023	0.1	0.2
$20,000 to $100,000	22	26	30.1	25.7	268	344	8.1	6.4	1,318,590	1,390,076	5.2	4.3	852,389	895,955	4.7	3.9
$100,000 to $5,000	32	51	43.8	50.5	1,200	[1] 3,132	36.1	58.7	8,488,862	11,593,933	33.7	36.2	6,000,628	[1] 13,180,816	33.2	57.9
$500,000 to $1,000,000	10	10	13.7	9.9	999	.....	30.0	.....	7,180,538	6,722,424	28.5	21.0	5,178,411	.....	28.7	.....
$1,000,000 and over	5	7	6.8	6.9	848	1,845	25.5	34.6	8,127,996	12,229,129	32.3	38.2	6,007,544	8,675,699	33.3	38.1
LUMBER, PLANING-MILL PRODUCTS, NOT INCLUDING PLANING MILLS CONNECTED WITH SAWMILLS	378	400	100.0	100.0	4,495	5,516	100.0	100.0	32,428 847	18,892,060	100.0	100.0	12,076,704	7,490,163	100.0	100.0
Less than $5,000	62	86	16.4	21.5	48	102	1.1	1.8	158,381	215,778	0.5	1.1	84,942	103,396	0.7	1.4
$5,000 to $20,000	107	130	28.3	32.5	257	526	5.7	9.5	1,157,665	1,423,433	3.6	7.5	571,589	690,951	4.7	9.2
$20,000 to $100,000	131	125	34.7	31.2	1,149	1,801	25.6	32.7	6,242,802	5,628,447	19.3	29.8	2,643,239	2,220,538	21.9	29.8
$100,000 to $500,000	66	[1] 69	17.5	14.8	1,794	[1] 3,087	39.9	56.0	13,744,438	[1] 11,624,402	42.4	61.5	5,008,420	[1] 4,466,278	42.2	59.6
$500,000 to $1,000,000	8	.....	2.1	.....	595	.....	13.2	.....	5,680,119	.....	17.5	.....	1,861,944	.....	15.4	.....
$1,000,000 and over	4	.....	1.1	.....	652	.....	14.5	.....	5,445,442	.....	16.8	.....	1,816,570	.....	15.0	.....
PAINTS	61	65	100.0	100.0	2,197	1,697	100.0	100.0	36,848,364	14,824,073	100.0	100.0	13,250,596	5,915,465	100.0	100.0
Less than $5,000	.....	9	.....	13.8	.....	5	.....	0.3	.....	23,741	.....	0.2	.....	10,024	.....	0.2
$5,000 to $20,000	[3] 7	16	11.5	24.6	[3] 10	28	0.5	1.6	[3] 87,331	186,830	0.2	1.3	[3] 37,878	82,045	0.3	1.4
$20,000 to $100,000	19	17	31.1	26.2	72	137	3.3	8.1	994,744	981,081	2.7	6.6	371,622	410,887	2.8	6.9
$100,000 to $500,000	19	16	31.1	24.6	255	[4] 1,527	11.6	90.0	4,461,565	4,086,748	12.1	27.6	1,789,911	[4] 5,412,509	13.5	91.5
$500,000 to $1,000,000	8	[5] 7	13.1	10.8	266	.....	12.1	.....	5,467,159	[5] 9,545,673	14.8	64.4	1,769,528	.....	13.4	.....
$1,000,000 and over	8	.....	13.1	.....	1,594	.....	72.6	.....	25,837,565	.....	70.1	.....	9,281,657	.....	70.0	.....
POTTERY	95	99	100.0	100.0	11,339	11,096	100.0	100.0	28,675,361	15,291,685	100.0	100.0	19,662,920	10,323,883	100.0	100.0
Less than $5,000	3	12	3.2	12.1	3	28	(2)	0.3	8,284	42,336	(2)	0.3	6,163	30,625	(2)	0.3
$5,000 to $20,000	6	17	6.3	17.2	15	164	0.1	1.5	57,327	281,072	0.2	1.8	40,294	233,773	0.2	2.3
$20,000 to $100,000	19	21	20.0	21.2	623	985	5.5	8.9	1,063,560	1,093,520	3.7	7.2	717,064	704,292	3.6	6.8
$100,000 to $500,000	50	45	52.6	45.5	5,552	[1] 9,919	49.0	89.4	13,075,194	10,857,570	45.6	71.0	8,954,913	[1] 9,355,193	45.5	90.6
$500,000 and over	17	4	17.9	4.0	5,146	.....	45.4	.....	14,470,996	3,017,187	50.5	19.7	9,944,486	.....	50.6	.....
PRINTING AND PUBLISHING, BOOK AND JOB	871	772	100.0	100.0	8,505	7,978	100.0	100.0	39,201,684	19,915,250	100.0	100.0	24,019,704	13,004,041	100.0	100.0
Less than $5,000	257	328	29.5	42.5	132	320	1.6	4.0	652,892	797,989	1.7	4.0	437,442	576,834	1.8	4.4
$5,000 to $20,000	312	261	35.8	33.8	867	1,184	10.2	14.8	3,371,035	2,556,193	8.6	12.8	2,195,950	1,831,582	9.1	14.1
$20,000 to $100,000	218	145	25.0	18.8	2,427	2,642	28.5	33.1	10,285,545	6,227,691	26.2	31.3	6,550,899	4,210,884	27.3	32.4
$100,000 to $500,000	68	35	7.8	4.5	2,757	[4] 3,832	32.4	48.0	12,936,826	7,303,019	33.0	36.7	8,106,850	[4] 6,384,741	33.8	49.1
$500,000 and over	16	3	1.8	0.4	2,322	.....	27.3	.....	11,955,336	3,030,358	30.5	15.2	6,728,623	.....	28.0	.....
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS	794	901	100.0	100.0	7,627	7,274	100.0	100.0	58,567,435	28,023,290	100.0	100.0	40,125,410	20,250,724	100.0	100.0
Less than $5,000	282	480	35.5	53.3	222	658	2.9	9.0	787,922	1,244,041	1.3	4.4	628,226	1,018,504	1.6	5.0
$5,000 to $20,000	294	245	37.0	27.2	730	1,062	9.6	14.6	2,834,544	2,329,110	4.8	8.3	2,232,647	1,899,411	5.6	9.4
$20,000 to $100,000	154	136	19.4	15.1	1,587	1,822	20.8	25.0	6,785,644	5,382,925	11.6	19.2	5,197,844	4,245,301	13.0	21.0
$100,000 to $500,000	42	29	5.3	3.2	1,452	[1] 2,160	19.0	29.7	9,270,247	6,127,845	15.8	21.9	6,904,932	[1] 6,846,354	17.2	33.8
$500,000 to $1,000,000	10	5	1.3	0.6	919	.....	12.0	.....	6,486,157	3,572,352	11.1	12.7	4,543,208	.....	11.3	.....
$1,000,000 and over	12	6	1.5	0.7	2,717	1,572	35.6	21.6	32,402,921	9,367,017	55.3	33.4	20,618,553	6,241,154	51.4	30.8
RUBBER TIRES, TUBES, AND RUBBER GOODS, NOT ELSEWHERE SPECIFIED	96	54	100.0	100.0	63,637	21,705	100.0	100 0	551,118,488	109,658,605	100.0	100.0	251,755,957	50,921,129	100.0	100.0
Less than $20,000	11	10	11.5	18.5	53	27	0.1	0.1	123,399	54,746	(2)	(2)	69,828	32,061	(2)	0.1
$20,000 to $100,000	23	16	24.0	29.6	302	242	0.5	1.1	1,112,904	668,260	0.2	0.6	350,337	314,080	0.1	0.6
$100,000 to $500,000	22	10	22.9	18.5	787	[1] 1,656	1.2	7.6	3,735,493	2,604,061	0.7	2.4	1,692,205	[1] 3,213,167	0.7	6.3
$500,000 to $1,000,000	6	7	6.3	13.0	540	.....	0.8	.....	4,856,505	4,346,805	0.9	4.0	2,088,817	.....	0.8	.....
$1,000,000 and over	34	11	35.4	20.4	61,955	19,780	97.4	91.1	541,290,187	101,984,733	98.2	93.0	247,554,770	47,361,821	98.3	93.0

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

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
SLAUGHTERING AND MEAT PACKING	141	152	100.0	100.0	5,336	3,480	100.0	100.0	$170,337,892	$84,960,396	100.0	100.0	$19,739,453	$6,663,426	100.0	100.0
Less than $20,000	11	22	7.8	14.5	3	13	0.1	0.4	127,497	254,033	0.1	0.4	22,848	42,037	0.1	0.6
$20,000 to $100,000	34	53	24.1	34.9	112	161	2.1	4.6	2,101,333	2,689,301	1.2	4.1	393,657	368,089	2.0	5.5
$100,000 to $500,000	46	47	32.6	30.9	345	[1] 909	6.5	26.1	11,263,554	10,488,551	6.6	16.1	1,347,717	[1] 2,283,864	6.8	34.3
$500,000 to $1,000,000	20	12	14.2	7.9	442	.....	8.3	.....	13,883,200	8,843,634	8.1	13.6	1,650,466	.....	8.4	.....
$1,000,000 and over	30	18	21.3	11.8	4,434	2,397	83.1	68.9	143,022,308	42,684,877	84.0	65.7	16,324,765	3,969,436	82.7	59.6
STOVES AND HOT-AIR FURNACES	67	79	100.0	100.0	6,069	5,041	100.0	100.0	25,009,260	9,990,696	100.0	100.0	14,212,357	6,487,997	100.0	100.0
Less than $5,000	.....	5	.....	6.3	.....	11	.....	0.2	.....	15,138	.....	0.2	.....	4,240	.....	0.1
$5,000 to $20,000	[2] 7	10	10.4	12.7	[2] 8	50	0.1	1.0	[2] 53,842	116,449	0.2	1.2	[2] 41,773	70,512	0.3	1.1
$20,000 to $100,000	18	35	26.9	44.3	191	735	3.1	14.6	1,060,047	1,864,121	4.2	18.7	539,535	1,122,134	3.8	17.3
$100,000 to $500,000	29	[3] 29	43.3	36.7	1,836	[3] 4,245	30.3	84.2	7,698,426	[3] 7,994,988	30.8	80.0	4,325,385	[3] 5,291,111	30.4	81.6
$500,000 to $1,000,000	6	.....	9.0	.....	880	.....	14.5	.....	3,739,442	.....	15.0	.....	2,267,634	.....	16.0	.....
$1,000,000 and over	7	.....	10.4	.....	3,154	.....	52.0	.....	12,457,503	.....	49.8	.....	7,038,030	.....	49.5	.....
STRUCTURAL IRON-WORK, NOT MADE IN STEEL WORKS OR ROLLLING MILLS	93	93	100.0	100.0	5,231	6,057	100.0	100.0	41,792,720	22,615,795	100.0	100.0	17,021,788	10,011,491	100.0	100.0
Less than $5,000	.....	13	.....	14.0	.....	14	.....	0.2	.....	35,226	.....	0.2	.....	18,379	.....	0.2
$5,000 to $20,000	[2] 19	13	20.4	14.0	[2] 48	62	0.9	0.9	[2] 189,844	144,511	0.5	0.6	[2] 110,266	77,444	0.6	0.8
$20,000 to $100,000	32	31	34.4	33.3	334	507	6.4	7.6	1,716,275	1,511,083	4.1	6.7	889,026	780,750	5.2	7.8
$100,000 to $500,000	25	23	26.9	24.7	1,130	[1] 3,234	21.6	48.6	7,008,661	5,780,385	16.8	25.6	3,149,842	[1] 4,451,015	18.5	44.5
$500,000 to $1,000,000	10	8	10.8	8.6	1,075	.....	20.6	.....	7,371,448	4,974,830	17.6	22.0	3,359,294	.....	19.7	.....
$1,000,000 and over	7	5	7.5	5.4	2,644	2,840	50.5	42.7	25,506,492	10,169,760	61.0	45.0	9,513,360	4,683,903	55.9	46.8
TOBACCO, CIGARS AND CIGARETTES	676	937	100.0	100.0	10,995	12,025	100.0	100.0	28,854,444	17,238,751	100.0	100.0	15,738,813	10,110,233	100.0	100.0
Less than $5,000	381	667	56.4	71.2	149	571	1.4	4.7	804,337	1,297,990	2.8	7.5	460,610	831,815	2.9	8.2
$5,000 to $20,000	157	171	23.2	18.2	520	1,077	4.7	9.0	1,452,277	1,515,298	5.0	8.8	820,596	988,585	5.3	9.8
$20,000 to $100,000	76	57	11.2	6.1	1,464	1,954	13.3	16.2	3,508,211	2,637,469	12.2	15.3	1,970,458	1,633,777	12.5	16.2
$100,000 to $500,000	49	[3] 42	7.2	4.5	4,800	[3] 8,423	43.7	70.0	11,765,788	[3] 11,787,994	40.8	68.4	6,254,374	[3] 6,656,056	39.7	65.8
$500,000 and over	13	.....	1.9	.....	4,062	.....	36.9	.....	11,323,831	.....	39.2	.....	6,223,775	.....	39.5	.....
TOOLS, NOT ELSEWHERE SPECIFIED	149	62	100.0	100.0	6,961	2,227	100.0	100.0	32,527,373	5,187,996	100.0	100.0	21,791,568	3,664,340	100.0	100.0
Less than $5,000	13	19	8.7	30.6	3	26	(4)	1.2	28,057	44,276	0.1	0.9	18,570	29,955	0.1	0.8
$5,000 to $20,000	24	25	16.1	40.3	88	124	1.3	5.6	278,935	265,740	0.9	5.1	207,889	208,576	1.0	5.7
$20,000 to $100,000	73	8	49.0	12.9	1,243	165	17.9	7.4	3,967,023	413,963	12.2	8.0	3,023,665	218,966	13.9	6.0
$100,000 to $500,000	27	[5] 10	18.1	16.1	1,567	[5] 1,912	22.5	85.9	5,149,747	[5] 4,464,017	15.8	86.0	3,780,878	[5] 3,206,843	17.3	87.5
$500,000 to $1,000,000	7	.....	4.7	.....	1,032	.....	14.8	.....	4,747,260	.....	14.6	.....	2,521,181	.....	11.6	.....
$1,000,000 and over	5	.....	3.4	.....	3,028	.....	43.5	.....	18,356,351	.....	56.4	.....	12,239,385	.....	56.2	.....

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

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

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
AKRON	304	65,054	100.0	$558,962,067	100.0	$244,590,473	100.0
Less than $5,000	35	29	(1)	89,849	(1)	41,749	(1)
$5,000 to $20,000	71	189	0.3	793,022	0.1	481,021	0.2
$20,000 to $100,000	87	814	1.3	3,899,485	0.7	2,049,972	0.8
$100,000 to $500,000	66	2,775	4.3	15,281,087	2.7	7,903,361	3.2
$500,000 to $1,000,000	19	2,162	3.3	13,444,955	2.4	7,237,911	3.0
$1,000,000 and over	26	59,085	90.8	525,453,669	94.0	226,876,459	92.8
ALLIANCE	74	5,117	100.0	32,871,087	100.0	18,081,650	100.0
Less than $5,000	10	1	(1)	21,196	0.1	13,810	0.1
$5,000 to $20,000	28	43	0.8	307,020	0.9	155,234	0.9
$20,000 to $100,000	17	154	3.0	760,543	2.3	389,290	2.2
$100,000 to $500,000 [2]	12	827	16.2	3,341,910	10.2	1,665,850	9.2
$1,000,000 and over	7	4,092	80.0	28,440,418	86.5	15,857,466	87.7
ASHTABULA	62	4,172	100.0	23,098,509	100.0	12,129,641	100.0
Less than $5,000	11	10	0.2	29,079	0.1	18,781	0.2
$5,000 to $20,000	19	41	1.0	183,201	0.8	94,306	0.8
$20,000 to $100,000	15	158	3.8	507,904	2.2	272,974	2.2
$100,000 to $500,000	8	514	12.3	1,731,021	7.5	940,263	7.8
$500,000 and over	9	3,449	82.7	20,647,304	89.4	10,803,317	89.1
BARBERTON	32	4,762	100.0	27,713,226	100.0	13,017,487	100.0
Less than $5,000	5	1	(1)	13,115	(1)	8,400	0.1
$5,000 to $20,000	5	5	0.1	53,591	0.2	22,213	0.2
$20,000 to $100,000	7	62	1.3	355,827	1.3	217,992	1.7
$100,000 to $500,000 [2]	9	843	17.7	3,199,501	11.5	2,063,521	15.9
$1,000,000 and over	6	3,851	80.9	24,091,192	86.9	10,705,361	82.2
BELLAIRE	45	2,277	100.0	14,502,401	100.0	4,573,889	100.0
Less than $5,000	7	6	0.3	18,984	0.1	10,536	0.2
$5,000 to $20,000	14	44	1.9	142,717	1.0	85,829	1.9
$20,000 to $100,000	11	134	5.9	556,616	3.8	287,481	6.3
$100,000 to $500,000	9	681	29.9	2,275,258	15.7	1,206,720	26.4
$1,000,000 and over	4	1,412	62.0	11,508,826	79.4	2,983,323	65.2
BUCYRUS	43	1,861	100.0	8,435,746	100.0	4,034,817	100.0
Less than $5,000	7	3	0.2	14,820	0.2	7,128	0.2
$5,000 to $20,000	14	26	1.4	124,980	1.5	68,988	1.7
$20,000 to $100,000	7	55	3.0	343,173	4.1	152,554	3.8
$100,000 to $500,000	10	298	16.0	2,095,660	24.8	940,706	23.3
$500,000 and over	5	1,479	79.5	5,857,113	69.4	2,865,441	71.0
CAMBRIDGE	32	1,782	100.0	11,226,809	100.0	5,373,642	100.0
Less than $5,000	4	7	0.4	15,332	0.1	8,295	0.2
$5,000 to $20,000	10	29	1.6	127,923	1.1	45,016	0.8
$20,000 to $100,000	11	95	5.3	543,656	4.8	189,209	3.5
$100,000 and over	7	1,651	92.6	10,539,898	93.9	5,131,122	95.5
CANTON	287	20,336	100.0	124,292,924	100.0	59,215,399	100.0
Less than $5,000	48	20	0.1	117,067	0.1	66,052	0.1
$5,000 to $20,000	62	189	0.9	692,589	0.6	392,563	0.7
$20,000 to $100,000	88	906	4.5	3,827,217	3.1	2,199,494	3.7
$100,000 to $500,000	57	2,214	10.9	13,846,840	11.1	6,754,362	11.4
$500,000 to $1,000,000	15	2,019	9.9	10,010,824	8.1	6,000,414	10.1
$1,000,000 and over	22	14,988	73.7	95,798,387	77.1	43,802,514	74.0
CHILLICOTHE	35	1,638	100.0	7,667,182	100.0	3,326,963	100.0
Less than $20,000	12	30	1.8	132,394	1.7	65,085	2.0
$20,000 to $100,000	17	203	12.4	814,163	10.6	383,712	11.5
$100,000 to $500,000 [2]	3	363	22.2	1,486,305	19.4	559,227	16.8
$1,000,000 and over	3	1,042	63.6	5,234,320	68.3	2,318,939	69.7
CINCINNATI	2,239	69,080	100.0	500,040,996	100.0	203,760,553	100.0
Less than $5,000	389	266	0.4	964,724	0.2	654,872	0.3
$5,000 to $20,000	573	1,778	2.6	6,253,300	1.3	3,799,309	1.9
$20,000 to $100,000	589	6,455	9.3	27,930,094	5.6	14,914,401	7.3
$100,000 to $500,000	469	19,345	27.8	106,950,783	21.4	51,800,647	25.4
$500,000 to $1,000,000	113	12,050	17.3	77,034,741	15.4	34,640,039	17.0
$1,000,000 and over	106	29,786	42.7	280,907,354	56.2	97,951,285	48.1
CLEVELAND	2,946	157,730	100.0	1,091,577,490	100.0	478,128,046	100.0
Less than $5,000	457	197	0.1	1,204,212	0.1	771,459	0.2
$5,000 to $20,000	773	1,894	1.2	8,544,281	0.8	5,306,880	1.1
$20,000 to $100,000	834	8,182	5.2	39,388,308	3.6	22,975,864	4.8
$100,000 to $500,000	510	20,306	12.9	117,880,534	10.8	60,367,360	12.6
$500,000 to $1,000,000	155	18,553	11.8	109,852,956	10.1	53,982,166	11.3
$1,000,000 and over	217	108,598	68.9	814,707,139	74.6	334,724,367	70.0
COLUMBUS	690	26,751	100.0	184,021,849	100.0	71,302,610	100.0
Less than $5,000	96	45	0.2	263,072	0.1	178,188	0.2
$5,000 to $20,000	213	583	2.2	2,339,918	1.3	1,441,752	2.0
$20,000 to $100,000	192	2,177	8.1	9,463,362	5.1	5,268,852	7.4
$100,000 to $500,000	124	5,473	20.5	28,301,762	15.4	13,894,614	19.5
$500,000 to $1,000,000	33	3,853	14.4	23,976,697	13.0	10,265,557	14.4
$1,000,000 and over	32	14,620	54.7	119,587,038	65.0	40,253,697	56.5
COSHOCTON	45	1,959	100.0	$7,684,762	100.0	$3,812,603	100.0
Less than $5,000	8	6	0.3	14,653	0.2	7,484	0.2
$5,000 to $20,000	10	30	1.5	105,820	1.4	48,541	1.3
$20,000 to $100,000	11	152	7.8	592,070	7.7	281,375	7.4
$100,000 to $500,000	10	440	22.5	2,180,180	28.4	837,217	22.0
$500,000 and over	6	1,331	67.9	4,792,039	62.4	2,637,476	69.2
CUYAHOGA FALLS	30	784	100.0	5,829,347	100.0	2,789,310	100.0
Less than $20,000	10	18	2.3	78,495	1.3	47,228	1.7
$20,000 to $100,000	12	107	13.6	547,711	9.4	290,687	10.4
$100,000 to $500,000	5	218	27.8	1,274,849	21.9	520,141	18.6
$500,000 and over	3	441	56.2	3,928,292	67.4	1,931,254	69.2
DAYTON	571	31,131	100.0	174,990,607	100.0	96,530,139	100.0
Less than $5,000	92	67	0.2	227,030	0.1	141,196	0.1
$5,000 to $20,000	127	2,046	6.6	11,392,080	6.5	3,841,161	4.0
$20,000 to $100,000	172	1,957	6.3	8,901,780	5.1	4,857,350	5.0
$100,000 to $500,000	127	6,552	21.0	27,438,740	15.7	14,322,204	14.8
$500,000 to $1,000,000	27	3,423	11.0	18,839,907	10.8	10,125,589	10.5
$1,000,000 and over	26	17,086	54.9	108,191,070	61.8	63,242,639	65.5
EAST CLEVELAND	17	88	100.0	420,505	100.0	229,558	100.0
$5,000 to $20,000	10	23	26.1	98,384	23.4	56,130	24.5
$20,000 to $100,000 [3]	7	65	73.9	322,121	76.6	173,428	75.5
EAST LIVERPOOL	67	4,311	100.0	12,501,181	100.0	7,610,101	100.0
Less than $5,000	6	6	0.1	16,487	0.1	10,426	0.1
$5,000 to $20,000	16	37	0.9	181,556	1.5	96,001	1.3
$20,000 to $100,000	18	273	6.3	1,057,622	8.5	527,373	6.9
$100,000 to $500,000	21	1,725	40.0	5,130,872	41.0	3,012,141	39.6
$500,000 and over	6	2,270	52.7	6,114,644	48.9	3,964,160	52.1
ELYRIA	75	4,590	100.0	25,191,454	100.0	14,963,840	100.0
Less than $5,000	14	8	0.2	35,385	0.1	24,099	0.2
$5,000 to $20,000	15	30	0.7	170,355	0.7	98,834	0.7
$20,000 to $100,000	21	122	2.7	802,028	3.2	404,397	2.7
$100,000 to $500,000	13	800	17.4	3,414,937	13.6	1,409,128	9.4
$500,000 to $1,000,000	5	895	19.5	4,000,274	15.9	2,206,997	15.4
$1,000,000 and over	7	2,735	59.6	16,768,475	66.6	10,730,385	71.7
FINDLAY	75	1,715	100.0	7,924,282	100.0	3,096,521	100.0
Less than $5,000	15	7	0.4	37,531	0.5	21,846	0.7
$5,000 to $20,000	25	78	4.5	306,897	3.9	150,388	4.9
$20,000 to $100,000	20	174	10.1	841,870	10.6	366,934	11.8
$100,000 to $500,000 [2]	12	863	50.3	3,124,354	39.4	1,322,502	42.7
$1,000,000 and over	3	593	34.6	3,613,630	45.6	1,234,761	39.9
FREMONT	53	2,999	100.0	12,915,095	100.0	7,477,431	100.0
Less than $5,000	7	6	0.2	16,602	0.1	10,110	0.1
$5,000 to $20,000	12	33	1.1	138,430	1.1	86,166	1.2
$20,000 to $100,000	19	239	8.0	986,575	7.6	548,516	7.3
$100,000 to $500,000	9	438	14.6	2,029,330	15.7	1,058,605	14.2
$500,000 to $1,000,000	3	462	15.4	2,186,428	16.9	954,530	12.8
$1,000,000 and over	3	1,821	60.7	7,557,730	58.5	4,819,504	64.5
HAMILTON	130	8,553	100.0	47,024,031	100.0	24,386,589	100.0
Less than $5,000	28	12	0.1	53,463	0.1	29,028	0.1
$5,000 to $20,000	34	104	1.2	351,569	0.7	194,543	0.8
$20,000 to $100,000	28	262	3.1	1,314,403	2.8	575,276	2.4
$100,000 to $500,000 [2]	31	2,027	23.7	8,564,204	18.2	4,363,592	17.9
$1,000,000 and over	9	6,148	71.9	36,740,392	78.1	19,224,150	78.8
IRONTON	52	1,971	100.0	14,071,850	100.0	5,235,008	100.0
Less than $20,000	13	26	1.3	124,255	0.9	70,498	1.3
$20,000 to $100,000	18	359	18.2	875,275	6.2	475,990	9.1
$100,000 to $500,000	12	359	18.2	2,748,050	19.5	1,026,255	19.6
$500,000 and over	9	1,227	62.3	10,324,270	73.4	3,662,559	70.0
KENMORE	7	135	100.0	844,303	100.0	239,922	100.0
Less than $100,000	4	11	8.1	51,121	6.1	31,513	13.1
$100,000 to $500,000	3	124	91.9	793,182	93.9	208,409	86.9
LAKEWOOD	33	1,821	100.0	7,602,803	100.0	3,750,224	100.0
Less than $5,000	12	4	0.2	29,409	0.4	18,970	0.5
$5,000 to $20,000	9	22	1.2	110,799	1.5	84,613	2.3
$20,000 and over	12	1,795	98.6	7,462,595	98.2	3,646,641	97.2
LANCASTER	43	2,024	100.0	11,478,883	100.0	4,746,576	100.0
Less than $5,000	7	5	0.2	20,727	0.2	11,870	0.3
$5,000 to $20,000	7	20	1.0	88,978	0.8	41,853	0.6
$20,000 to $100,000	16	156	7.7	697,939	6.1	247,781	5.9
$100,000 and over	13	1,843	91.1	10,671,189	93.0	4,445,072	93.2

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

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

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

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

CITY AND VALUE OF PRODUCT.	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.
LIMA	108	4,901	100.0	$23,638,764	100.0	$10,895,473	100.0
Less than $5,000	15	14	0.3	38,556	0.2	22,070	0.2
$5,000 to $20,000	34	122	2.5	412,909	1.7	229,742	2.1
$20,000 to $100,000	35	500	10.2	1,891,400	8.0	980,993	9.0
$100,000 to $500,000[1]	17	877	17.9	4,200,057	17.8	1,881,364	17.3
$1,000,000 and over	7	3,388	69.1	17,095,842	72.3	7,782,234	71.4
LORAIN	55	11,677	100.0	116,908,616	100.0	50,913,851	100.0
Less than $5,000	6	.....	.....	14,966	(2)	5,330	(2)
$5,000 to $20,000	12	22	0.2	140,448	0.1	71,330	0.1
$20,000 to $100,000	21	194	1.7	993,308	0.8	448,096	0.9
$100,000 to $500,000[1]	8	206	1.8	1,734,744	1.5	860,745	1.7
$1,000,000 and over	8	11,255	96.4	114,025,150	97.5	49,528,350	97.3
MANSFIELD	132	4,711	100.0	31,877,551	100.0	14,518,413	100.0
Less than $5,000	26	21	0.4	62,323	0.2	38,248	0.3
$5,000 to $20,000	37	95	2.0	408,179	1.3	236,052	1.6
$20,000 to $100,000	34	296	6.3	1,623,029	5.1	651,646	4.5
$100,000 to $500,000	23	1,079	22.9	5,670,152	17.8	2,648,127	18.2
$500,000 to $1,000,000	5	643	13.6	2,752,788	8.6	1,499,933	10.3
$1,000,000 and over	7	2,577	54.7	21,361,080	67.0	9,444,407	65.1
MARIETTA	59	1,285	100.0	5,917,469	100.0	3,065,611	100.0
Less than $5,000	12	16	1.2	37,316	0.6	22,212	0.7
$5,000 to $20,000	13	26	2.0	114,973	1.9	60,403	2.0
$20,000 to $100,000	25	237	18.4	1,096,915	18.5	505,140	16.5
$100,000 and over	9	1,006	78.3	4,668,265	78.9	2,477,856	80.8
MARION	70	4,125	100.0	20,712,973	100.0	10,339,043	100.0
Less than $5,000	12	7	0.2	26,831	0.1	18,185	0.2
$5,000 to $20,000	13	29	0.7	140,609	0.7	76,856	0.7
$20,000 to $100,000	26	338	8.2	1,235,529	6.0	568,754	5.5
$100,000 to $500,000	11	628	15.2	2,454,333	11.8	1,186,091	11.5
$500,000 and over	8	3,123	75.7	16,855,671	81.4	8,489,157	82.1
MARTINS FERRY	40	1,517	100.0	15,402,280	100.0	5,130,213	100.0
Less than $5,000	16	8	0.5	32,183	0.2	19,101	0.4
$5,000 to $20,000	10	23	1.5	113,826	0.7	51,003	1.0
$20,000 to $100,000	4	59	3.9	239,738	1.6	127,191	2.5
$100,000 to $500,000	6	264	17.4	1,241,476	8.1	597,016	11.6
$500,000 and over	4	1,163	76.7	13,775,057	89.4	4,335,842	84.5
MASSILLON	80	2,153	100.0	13,984,871	100.0	6,911,044	100.0
Less than $5,000	18	12	0.6	49,295	0.4	31,421	0.5
$5,000 to $20,000	22	42	2.0	227,641	1.6	138,125	2.0
$20,000 to $100,000	17	100	4.6	607,730	4.3	293,510	4.2
$100,000 to $500,000[1]	19	860	39.9	5,137,635	36.7	2,704,554	39.1
$1,000,000 and over	4	1,139	52.9	7,962,570	56.9	3,743,434	54.2
MIDDLETOWN	56	6,442	100.0	62,838,289	100.0	27,151,077	100.0
Less than $5,000	8	2	(2)	9,563	(2)	4,552	(2)
$5,000 to $20,000	9	30	0.5	109,068	0.2	51,438	0.2
$20,000 to $100,000	15	149	2.3	868,160	1.4	453,349	1.7
$100,000 to $500,000	10	270	4.2	1,895,606	3.0	730,585	2.7
$500,000 to $1,000,000	4	316	4.9	2,756,233	4.4	1,070,486	3.9
$1,000,000 and over	10	5,675	88.1	57,199,659	91.0	24,840,667	91.5
NEW PHILADELPHIA	43	1,247	100.0	8,445,658	100.0	3,593,985	100.0
Less than $5,000	13	15	1.2	41,181	0.5	25,565	0.7
$5,000 to $20,000	15	44	3.5	155,462	1.8	94,558	2.6
$20,000 to $100,000	10	63	5.1	386,855	4.6	237,112	6.6
$100,000 and over	5	1,125	90.2	7,862,160	93.1	3,236,750	90.1
NEWARK	79	4,570	100.0	16,563,149	100.0	8,291,523	100.0
Less than $5,000	12	10	0.2	30,500	0.2	18,998	0.2
$5,000 to $20,000	20	58	1.3	223,582	1.3	123,587	1.5
$20,000 to $100,000	24	295	6.5	1,234,421	7.5	593,644	7.2
$100,000 to $500,000	16	674	14.7	3,001,039	18.1	1,389,239	16.8
$500,000 to $1,000,000	3	221	4.8	2,289,274	13.8	517,836	6.2
$1,000,000 and over	4	3,312	72.5	9,784,333	59.1	5,648,220	68.1
NILES	40	2,945	100.0	18,358,773	100.0	8,282,899	100.0
Less than $5,000	4	2	0.1	9,800	0.1	5,712	0.1
$5,000 to $20,000	12	31	1.1	129,840	0.7	77,138	0.9
$20,000 to $100,000	7	56	1.9	244,506	1.3	104,841	1.3
$100,000 to $500,000	8	360	12.2	2,244,431	12.2	970,736	11.7
$500,000 to $1,000,000	5	787	26.7	3,941,898	21.5	1,845,838	22.3
$1,000,000 and over	4	1,709	58.0	11,788,292	64.2	5,278,634	63.7
NORWOOD	70	8,283	100.0	47,947,183	100.0	27,724,313	100.0
Less than $5,000	4	2	(2)	9,887	(2)	4,678	(2)
$5,000 to $20,000	24	58	0.7	226,804	0.5	123,367	0.4
$20,000 to $100,000	13	145	1.8	693,551	1.4	426,584	1.5
$100,000 to $500,000	8	462	5.6	2,229,551	4.6	1,416,948	5.1
$500,000 to $1,000,000	6	1,073	13.0	5,108,252	10.7	2,577,067	9.3
$1,000,000 and over	15	6,543	79.0	39,679,138	82.8	23,175,669	83.6
PIQUA	66	3,203	100.0	$19,921,345	100.0	$8,966,318	100.0
Less than $5,000	12	7	0.2	22,547	0.1	11,603	0.1
$5,000 to $20,000	12	29	0.9	128,001	0.6	70,967	0.8
$20,000 to $100,000	17	153	4.6	801,140	4.0	351,503	3.9
$100,000 to $500,000	13	551	16.7	3,185,655	16.0	1,609,351	17.9
$500,000 to $1,000,000	4	571	17.3	3,036,093	15.2	1,770,929	19.8
$1,000,000 and over	8	1,982	60.2	12,747,909	64.0	5,151,965	57.5
PORTSMOUTH	60	5,914	100.0	36,645,736	100.0	16,467,980	100.0
Less than $5,000	8	.....	.....	22,621	0.1	12,628	0.4
$5,000 to $20,000	16	45	0.8	205,586	0.6	107,125	0.1
$20,000 to $100,000	19	203	3.4	975,483	2.7	423,622	2.7
$100,000 to $500,000[1]	12	716	12.1	3,171,312	8.6	1,537,897	9.6
$1,000,000 and over	5	4,950	83.7	32,270,734	88.1	14,386,708	87.3
SALEM	36	2,237	100.0	11,069,550	100.0	6,848,949	100.0
Less than $5,000	4	3	0.1	7,930	0.1	4,582	0.1
$5,000 to $20,000	9	24	1.1	119,006	1.1	72,309	1.1
$20,000 to $100,000	11	121	5.4	598,451	5.4	365,790	5.3
$100,000 and over	12	2,089	93.4	10,344,163	93.4	6,406,268	93.5
SANDUSKY	115	3,447	100.0	19,248,571	100.0	8,588,926	100.0
Less than $5,000	22	10	0.3	65,782	0.3	43,278	0.5
$5,000 to $20,000	27	75	2.2	303,041	1.6	178,654	2.1
$20,000 to $100,000	32	453	13.1	1,701,580	8.8	540,852	6.3
$100,000 to $500,000	23	1,005	29.2	4,772,455	24.8	2,364,552	27.5
$500,000 and over	11	1,904	55.2	12,405,713	64.5	5,461,590	63.6
SPRINGFIELD	206	12,264	100.0	67,759,001	100.0	33,868,702	100.0
Less than $5,000	31	19	0.2	78,063	0.1	49,457	0.1
$5,000 to $20,000	56	169	1.4	610,922	0.9	390,980	1.2
$20,000 to $100,000	54	622	5.1	2,758,494	4.1	1,617,480	4.8
$100,000 to $500,000	36	2,017	16.4	8,758,240	12.9	4,890,803	14.4
$500,000 to $1,000,000	15	1,993	16.3	10,498,403	15.5	5,642,623	16.7
$1,000,000 and over	14	7,444	60.7	45,054,879	66.5	21,277,359	62.8
STEUBENVILLE	57	3,855	100.0	30,903,344	100.0	14,527,594	100.0
Less than $5,000	3	3	0.1	7,500	(2)	4,684	(2)
$5,000 to $20,000	19	45	1.2	222,309	0.7	96,300	0.7
$20,000 to $100,000	20	146	3.8	790,812	2.6	385,993	2.7
$100,000 and over	15	3,661	95.0	29,882,723	96.7	14,040,617	96.6
TIFFIN	75	2,213	100.0	10,516,369	100.0	5,765,895	100.0
Less than $5,000	17	10	0.5	46,254	0.4	26,977	0.5
$5,000 to $20,000	20	65	2.9	216,338	2.1	129,937	2.3
$20,000 to $100,000	23	192	8.7	1,183,842	11.3	492,834	8.5
$100,000 to $500,000	10	504	22.8	2,769,971	26.3	1,163,557	20.5
$500,000 and over	5	1,442	65.2	6,299,964	59.9	3,952,590	68.2
TOLEDO	671	42,090	100.0	203,520,900	100.0	120,233,281	100.0
Less than $5,000	97	43	0.1	245,628	0.1	154,005	0.1
$5,000 to $20,000	161	393	0.9	1,811,563	0.6	1,084,002	0.9
$20,000 to $100,000	199	2,024	4.8	9,680,995	3.3	5,148,494	4.3
$100,000 to $500,000	131	6,373	15.1	29,580,136	10.1	14,802,923	12.3
$500,000 to $1,000,000	30	3,162	7.5	20,846,734	7.1	8,812,183	7.3
$1,000,000 and over	53	30,095	71.5	231,355,844	78.8	90,231,674	75.0
WARREN	93	2,433	100.0	19,747,395	100.0	7,816,812	100.0
Less than $5,000	22	5	0.2	40,710	0.2	24,191	0.3
$5,000 to $20,000	27	47	1.9	237,330	1.5	143,500	1.8
$20,000 to $100,000	25	189	7.8	1,167,675	5.9	616,991	7.9
$100,000 to $500,000	13	494	20.3	2,494,776	12.6	1,256,894	16.1
$500,000 to $1,000,000	4	498	20.5	2,912,390	14.7	1,417,825	18.1
$1,000,000 and over	5	1,200	49.3	12,844,514	65.0	4,357,411	55.7
YOUNGSTOWN	239	19,414	100.0	241,458,370	100.0	78,359,653	100.0
Less than $5,000	53	26	0.1	141,871	0.1	85,093	0.1
$5,000 to $20,000	60	150	0.8	655,169	0.3	390,875	0.5
$20,000 to $100,000	61	390	2.0	2,497,601	1.0	1,222,895	1.6
$100,000 to $500,000	36	1,187	6.1	9,349,882	3.9	4,569,351	5.8
$500,000 to $1,000,000	9	1,160	6.0	6,235,587	2.6	2,929,994	3.7
$1,000,000 and over	20	16,501	85.0	222,578,260	92.2	69,160,875	88.3
ZANESVILLE	97	3,014	100.0	13,437,777	100.0	6,010,488	100.0
Less than $5,000	20	15	0.5	49,761	0.4	28,843	0.5
$5,000 to $20,000	27	93	3.1	274,487	2.0	162,748	2.7
$20,000 to $100,000	19	187	6.2	873,235	6.5	487,216	8.1
$100,000 to $500,000	22	1,296	43.0	4,904,636	36.5	2,435,160	40.5
$500,000 and over	9	1,423	47.2	7,335,658	54.6	2,896,521	48.2

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

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

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

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.					
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.	
		Individuals.	Corporations.	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations	All others.
All industries	1919	6,490	6,766	2,869	730,733	28,421	678,849	23,463	3.9	92.9	3.2	$5,100,308,728	$157,660,289	$4,790,633,085	$152,015,354	3.1	93.9	3.0
	1914	6,959	5,775	2,924	510,435	32,628	449,244	28,563	6.4	88.0	5.6	1,782,808,279	89,037,502	1,601,796,776	91,974,001	5.0	89.8	5.2
	1909	6,978	5,123	3,037	446,934	34,345	378,473	34,116	7.7	84.7	7.6	1,437,935,817	88,075,465	1,249,778,444	100,081,908	6.1	86.9	7.0
Automobile bodies and parts	1919	71	126	40	16,670	399	15,881	390	2.4	95.3	2.3	92,390,646	2,777,329	87,405,711	2,207,606	3.0	94.6	2.4
	1914	15	41	7	4,128	142	3,943	43	3.4	95.5	1.0	9,556,097	637,985	8,801,079	117,033	6.7	92.1	1.2
Brass, bronze, and copper products	1919	25	54	13	4,264	211	3,944	109	4.9	92.5	2.5	27,801,760	1,353,885	25,927,394	520,481	4.9	93.3	1.9
	1914	28	42	14	2,277	197	1,922	158	8.7	84.4	6.9	7,843,092	532,955	6,894,127	416,010	6.8	87.9	5.3
Bread and other bakery products	1919	1,230	150	241	9,091	3,198	5,010	883	35.2	55.1	9.7	78,819,001	26,949,498	43,871,455	7,998,048	34.2	55.7	10.1
	1914	1,318	81	235	7,665	3,246	3,566	853	42.3	46.5	11.1	30,560,881	12,755,385	14,279,550	3,525,946	41.7	46.7	11.5
Brick and tile, terra-cotta, and fire-clay products	1919	64	215	62	12,060	492	10,961	607	4.1	90.9	5.0	32,172,576	672,210	30,149,117	1,351,249	2.1	93.7	4.2
	1914	124	223	103	16,238	776	14,527	935	4.8	89.5	5.8	23,375,689	1,029,397	20,998,577	1,347,715	4.4	89.8	5.8
Butter	1919	29	80	32	1,362	154	1,104	104	11.3	81.1	7.6	41,061,993	2,334,594	36,366,409	2,360,990	5.7	88.6	5.7
	1914	33	71	39	1,099	104	874	121	9.5	79.5	11.0	14,938,608	1,065,531	12,544,402	1,418,675	87.1	3.4	9.5
Cars and general shop construction and repairs by steam-railroad companies	1919	.....	117	.....	35,245	.....	35,245	.....	.....	100.0	.....	96,483,946	.....	96,483,946	.....	.....	100.0	.....
	1914	.....	88	.....	21,639	.....	21,639	.....	.....	100.0	.....	33,286,205	.....	33,286,205	.....	.....	100.0	.....
Cars, steam-railroad, not including operations of railroad companies	1919	.....	8	.....	2,177	.....	2,177	.....	.....	100.0	.....	28,145,542	.....	28,145,542	.....	.....	100.0	.....
	1914	.....	5	.....	2,885	.....	2,885	.....	.....	100.0	.....	11,795,726	.....	11,795,726	.....	.....	100.0	.....
Clothing, men's	1919	114	71	61	9,939	1,524	6,649	1,766	15.3	66.9	17.8	58,169,320	4,501,512	41,392,307	12,275,501	7.7	71.2	21.1
	1914	121	45	58	8,691	1,874	3,769	3,048	21.6	43.4	35.1	24,063,468	2,804,335	11,236,960	10,022,173	11.7	46.7	41.6
Clothing, women's	1919	53	88	34	8,258	1,015	6,485	758	12.3	78.5	9.2	48,703,704	4,507,299	38,369,637	5,326,768	9.3	79.8	10.9
	1914	67	66	37	9,775	692	7,293	1,790	7.1	74.6	18.3	22,881,753	1,336,251	16,853,882	4,691,620	5.8	73.7	20.5
Coke, not including gas-house coke	1919	.....	13	.....	3,407	.....	3,407	.....	.....	100.0	.....	46,514,213	.....	46,514,213	.....	.....	100.0	.....
	1914	.....	5	.....	489	.....	489	.....	.....	100.0	.....	2,156,814	.....	2,156,814	.....	.....	100.0	.....
Confectionery and ice cream.[1]	1919	148	118	114	5,451	351	4,495	605	6.4	82.5	11.1	39,185,084	2,657,140	32,117,440	4,410,504	6.8	82.0	11.3
	1914	134	90	68	3,965	418	3,036	511	10.5	76.6	12.9	14,341,668	1,252,338	11,025,147	1,463,033	8.7	81.1	10.2
Electrical machinery, apparatus, and supplies	1919	26	151	12	26,672	179	26,329	164	0.7	98.7	0.6	156,924,143	828,705	155,381,835	713,603	0.5	99.0	0.5
	1914	20	87	12	12,695	88	12,482	125	0.7	98.3	1.0	36,120,978	257,038	35,520,772	343,168	0.7	98.3	1.0
Flour-mill and gristmill products	1919	220	143	214	2,122	378	1,338	406	17.8	63.1	19.1	80,396,619	10,294,759	66,560,505	12,541,355	11.5	74.5	14.0
	1914	263	137	249	2,303	478	1,294	591	20.2	54.8	25.0	45,171,200	6,438,927	28,824,681	9,907,592	14.3	63.8	21.9
Food preparations, not elsewhere specified	1919	40	39	19	1,857	51	1,751	55	2.7	94.3	3.0	46,340,447	350,151	45,616,734	373,562	0.8	98.4	0.8
	1914	30	34	12	1,523	82	1,396	45	5.4	91.7	3.0	27,346,187	313,748	26,915,712	116,727	1.1	98.4	0.4
Foundry and machine-shop products.[2]	1919	269	741	152	87,803	1,965	83,004	2,834	2.2	94.5	3.2	425,497,682	7,601,512	403,960,053	13,936,117	1.8	94.9	3.3
	1914	224	619	149	51,553	1,355	48,244	1,954	2.6	93.6	3.8	122,816,681	3,109,976	114,936,866	4,769,839	2.5	93.6	3.9
Furniture	1919	33	104	25	8,346	404	7,630	312	4.8	91.4	3.7	35,224,313	1,440,422	32,363,275	1,420,616	4.1	91.9	4.0
	1914	61	110	38	7,750	777	6,434	539	10.0	83.0	7.0	16,411,298	1,358,558	13,960,248	1,092,492	8.3	85.1	6.7
Iron and steel, blast furnaces	1919	.....	42	.....	9,793	.....	9,793	.....	.....	100.0	.....	179,233,435	.....	179,233,435	.....	.....	100.0	.....
	1914	.....	33	.....	5,786	.....	5,786	.....	.....	100.0	.....	72,969,368	.....	72,960,368	.....	.....	100.0	.....
Leather, tanned, curried, and finished	1919	2	17	5	1,565	.....	1,488	[3] 77	.....	95.1	4.9	25,008,070	.....	24,052,918	[3] 955,152	.....	96.2	3.8
	1914	4	19	5	1,005	.....	1,504	[3] 101	.....	93.7	6.3	11,627,916	.....	10,840,933	[3] 786,983	.....	93.2	6.8
Liquors, malt	1919	4	67	2	3,327	[4] 45	3,282	.....	1.4	98.6	.....	25,161,227	[4] 182,141	24,979,086	.....	0.7	99.3	.....
	1914	7	83	11	5,340	49	5,200	91	0.9	97.4	1.7	31,990,274	219,265	31,429,717	341,292	0.7	98.2	1.1
Lumber, planing-mill products, not including planing mills connected with sawmills	1919	102	199	77	4,495	609	3,443	443	13.5	76.6	9.9	32,428,847	3,988,051	25,796,234	2,644,562	12.3	79.5	8.2
	1914	126	188	86	5,516	620	4,190	706	11.2	76.0	12.8	18,892,060	2,034,656	13,811,644	3,045,760	10.8	73.1	16.1
Paints	1919	7	51	3	2,197	.....	2,163	[3] 34	.....	98.5	1.5	36,848,364	.....	36,271,410	[3] 576,954	.....	98.4	1.6
	1914	14	48	3	1,697	.....	1,654	[3] 43	.....	97.5	2.5	14,824,073	.....	14,491,592	[3] 332,481	.....	97.8	2.2
Petroleum, refining	1919	.....	11	.....	2,431	.....	2,431	.....	.....	100.0	.....	43,282,801	.....	43,282,801	.....	.....	100.0	.....
	1914	.....	7	.....	1,519	.....	1,519	.....	.....	100.0	.....	11,169,189	.....	11,169,189	.....	.....	100.0	.....
Pottery	1919	8	79	8	11,339	[4] 683	10,656	.....	6.0	94.0	.....	28,675,361	[4] 1,486,916	27,188,445	.....	5.2	94.8	.....
	1914	11	76	12	11,096	455	10,466	175	4.1	94.3	1.6	15,291,685	539,581	14,530,252	221,852	3.5	95.0	1.5
Printing and publishing, book and job	1919	462	252	157	8,505	1,306	6,213	986	15.4	73.1	11.6	39,201,684	5,237,135	29,743,181	4,221,368	13.4	75.9	10.8
	1914	429	214	129	7,978	1,392	5,666	920	17.4	71.0	11.5	19,915,250	3,093,466	14,775,210	2,046,574	15.5	74.2	10.3
Printing and publishing, newspapers and periodicals	1919	330	280	184	7,027	850	6,282	495	11.1	82.4	6.5	58,567,435	4,823,328	50,358,137	3,385,970	8.2	86.0	5.8
	1914	420	299	182	7,274	1,240	5,393	641	17.0	74.1	8.8	28,023,290	3,853,296	21,733,989	2,436,005	13.8	77.6	8.7
Rubber tires, tubes, and rubber goods, not elsewhere specified	1919	5	86	5	63,637	.....	63,537	[3] 100	.....	99.8	0.2	551,118,488	.....	550,446,655	[3] 671,833	.....	99.9	0.1
	1914	2	48	4	21,705	.....	21,659	[3] 46	.....	99.8	0.2	109,658,605	.....	109,527,183	[3] 131,422	.....	99.9	0.1
Shipbuilding, steel	1919	.....	9	.....	11,192	.....	11,192	.....	.....	100.0	.....	56,481,966	.....	56,481,966	.....	.....	100.0	.....
	1914	.....	5	.....	2,623	.....	2,623	.....	.....	100.0	.....	4,291,645	.....	4,291,645	.....	.....	100.0	.....
Slaughtering and meat packing	1919	54	54	33	5,336	319	4,835	182	6.0	90.6	3.4	170,337,892	12,481,613	147,863,255	9,993,024	7.3	86.8	5.9
	1914	72	47	33	3,480	320	2,999	161	9.2	86.2	4.6	64,960,396	6,524,166	53,172,905	5,263,325	10.0	81.9	8.1
Stoves and hot-air furnaces	1919	6	54	7	6,069	55	5,883	131	0.9	96.9	2.2	25,009,260	355,927	24,093,560	559,773	1.4	96.3	2.2
	1914	9	61	9	5,041	131	4,705	205	2.6	93.3	4.1	9,990,696	488,007	9,090,655	412,034	4.9	91.0	4.1
Structural ironwork, not made in steel works or rolling mills	1919	19	68	6	5,231	231	4,947	53	4.4	94.6	1.0	41,792,720	1,235,106	40,296,781	260,833	3.0	96.4	0.6
	1914	23	63	7	6,657	126	6,397	134	1.9	96.1	2.0	22,615,795	323,515	21,886,326	405,954	1.4	96.8	1.8
Tobacco, cigars and cigarettes	1919	543	65	68	10,995	2,610	6,693	1,692	23.7	60.9	15.4	28,854,444	7,513,075	16,627,566	4,713,803	26.0	57.6	16.3
	1914	776	50	111	12,025	3,103	5,933	2,989	25.8	49.3	24.9	17,238,751	5,268,112	8,125,163	3,845,476	30.6	47.1	22.3
Tools, not elsewhere specified	1919	27	96	26	6,961	212	6,287	462	3.0	90.3	6.6	32,527,373	705,174	30,050,234	1,771,965	2.2	92.4	5.4
	1914	19	28	15	2,227	40	2,127	60	1.8	95.5	2.7	5,187,996	94,791	4,976,602	116,603	1.8	95.9	2.2

[1] Includes "chewing gum" in 1914.
[2] Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."
[3] Includes the group "Individuals."
[4] Includes the group "All others."

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

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.						
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.		
		Individuals.	Corporations.	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations	All others.
Total for cities [1]	1919	3,960	4,891	1,686	577,271	20,644	539,102	17,525	3.6	93.4	3.0	$4,059,713,323	$117,252,283	$3,830,203,897	$112,257,143	2.9	94.3	2.8
	1914	4,000	3,972	1,542	385,608	22,948	341,293	21,367	6.0	88.5	5.5	1,372,110,101	61,653,709	1,244,169,806	66,286,586	4.5	90.7	4.8
AKRON	1919	101	162	41	65,054	394	64,443	217	0.6	99.1	0.3	558,962,067	2,292,393	554,909,010	1,760,664	0.4	99.3	0.3
	1914	115	144	46	24,680	424	24,141	115	1.7	97.8	0.5	122,291,600	1,249,626	120,416,724	625,250	1.0	98.5	0.5
ALLIANCE	1919	34	23	17	5,117	71	4,877	169	1.4	95.3	3.3	32,871,087	642,330	31,162,991	1,065,766	2.0	94.8	3.2
	1914	24	19	9	2,333	53	2,220	60	2.3	95.2	2.5	7,174,766	189,478	6,714,898	270,390	2.6	93.6	3.8
ASHTABULA	1919	32	25	5	4,172	191	3,977	4	4.5	95.3	0.1	23,098,509	826,847	22,236,028	35,634	3.6	96.3	0.2
	1914	25	26	6	1,868	133	1,693	42	7.1	90.6	2.2	5,020,991	481,578	4,440,431	98,982	9.6	88.4	2.0
BARBERTON	1919	14	16	2	4,762	[2] 44	4,718	.....	0.9	99.1	.....	27,713,226	[2] 382,495	27,330,731	.....	1.4	98.6	.....
	1914	17	10	7	3,118	50	3,050	18	1.6	97.8	0.6	8,843,422	188,073	8,539,623	115,726	2.1	96.6	1.3
BELLAIRE	1919	16	19	10	2,277	25	2,197	55	1.1	96.5	2.4	14,502,401	142,719	13,967,311	392,371	1.0	96.3	2.7
	1914	21	13	6	2,603	303	2,281	19	11.6	87.6	0.7	12,170,206	401,225	11,608,030	160,951	3.3	95.4	1.3
BUCYRUS	1919	20	16	7	1,861	48	1,769	44	2.6	95.1	2.4	8,435,746	397,176	7,555,168	483,402	4.7	89.6	5.7
CAMBRIDGE	1919	10	17	5	1,782	51	1,714	17	2.9	96.2	1.0	11,226,809	302,952	10,855,458	68,399	2.7	96.7	0.6
	1914	12	18	9	1,455	36	1,394	25	2.5	95.8	1.7	3,923,786	107,104	3,669,907	146,775	2.7	93.5	3.7
CANTON	1919	103	148	36	20,336	468	19,694	174	2.3	96.8	0.9	124,292,924	2,680,690	120,623,011	989,223	2.2	97.0	0.8
	1914	107	140	29	12,255	510	11,545	200	4.2	94.2	1.6	43,713,446	1,141,757	42,005,773	565,916	2.6	96.1	1.3
CHILLICOTHE	1919	10	14	11	1,638	47	1,519	72	2.9	92.7	4.4	7,667,182	273,356	6,975,560	418,266	3.6	91.0	5.5
	1914	21	18	7	1,557	90	1,315	152	5.7	84.5	9.8	4,083,486	409,470	3,399,200	274,816	10.0	83.2	6.7
CINCINNATI	1919	912	882	445	69,680	5,723	57,155	6,802	8.2	82.0	9.8	500,040,996	32,376,332	422,405,952	45,258,712	6.5	84.5	9.1
	1914	935	786	414	59,861	6,902	45,679	7,280	11.5	76.3	12.2	210,880,386	20,172,013	168,157,011	22,531,362	9.6	79.7	10.7
CLEVELAND	1919	1,091	1,461	394	157,730	5,196	148,764	3,770	3.3	94.3	2.4	1,091,577,490	29,576,933	1,032,638,042	29,362,515	2.7	94.6	2.7
	1914	1,005	1,032	303	103,317	6,421	91,218	5,678	6.2	88.3	5.5	352,418,052	14,847,376	318,827,846	18,742,830	4.2	90.5	5.3
COLUMBUS	1919	272	321	97	26,751	1,439	24,234	1,078	5.4	90.6	4.0	184,021,849	8,137,656	170,676,035	5,208,158	4.4	92.7	2.8
	1914	266	268	109	17,236	1,232	15,108	896	7.1	87.7	5.2	57,608,084	3,781,953	50,521,905	3,304,226	6.6	87.7	5.7
COSHOCTON	1919	10	27	8	1,959	12	1,852	95	0.6	94.5	4.8	7,684,762	51,743	6,987,344	645,675	0.7	90.9	8.4
	1914	21	24	2	1,614	54	1,529	31	3.3	94.7	1.9	3,476,686	191,570	3,229,540	55,576	5.5	92.9	1.6
CUYAHOGA FALLS	1919	11	11	8	784	64	689	31	8.2	87.9	4.0	5,829,347	406,182	5,260,659	162,505	7.0	90.2	2.8
DAYTON	1919	186	294	91	31,131	967	28,900	1,264	3.1	92.8	4.1	174,990,607	4,562,728	164,346,727	6,081,152	2.6	93.9	3.5
	1914	214	219	90	24,061	1,219	21,542	1,300	5.1	89.5	5.4	71,071,374	3,440,523	64,948,376	2,682,475	4.8	91.4	3.8
EAST CLEVELAND	1919	7	7	3	88	38	40	10	43.2	45.5	11.4	420,505	162,082	211,403	47,020	38.5	50.3	11.2
	1914	3	2	2	129	.....	[3] 129	.....	.....	100.0	.....	295,786	.....	[3] 295,786	.....	.....	.....	.....
EAST LIVERPOOL	1919	20	36	11	4,311	99	4,090	122	2.3	94.9	2.8	12,501,181	1,110,738	10,929,511	460,932	8.9	87.4	3.7
	1914	30	36	14	4,830	109	4,555	166	2.3	94.3	3.4	7,092,903	336,296	6,456,349	300,258	4.7	91.0	4.2
ELYRIA	1919	22	44	9	4,590	114	4,456	20	2.5	97.1	0.4	25,191,454	820,787	24,248,261	122,406	3.3	96.3	0.5
	1914	23	34	6	2,735	140	2,586	9	5.1	94.6	0.3	8,791,734	556,191	8,168,421	67,122	6.3	92.9	0.8
FINDLAY	1919	27	30	18	1,715	58	1,553	104	3.4	90.6	6.1	7,924,282	437,792	7,037,685	448,805	5.5	88.8	5.7
	1914	25	37	16	1,737	74	1,557	106	4.3	89.6	6.1	4,662,778	235,748	4,066,636	360,394	5.1	87.2	7.7
FREMONT	1919	14	32	7	2,999	50	2,883	66	1.7	96.1	2.2	12,915,095	162,807	12,399,358	352,930	1.3	96.0	2.7
	1914	16	36	13	2,063	36	1,978	49	1.7	95.9	2.4	4,779,982	144,794	4,526,378	108,810	3.0	94.7	2.3
HAMILTON	1919	52	54	24	8,553	143	8,020	390	1.7	93.8	4.6	47,024,031	716,438	44,850,681	1,456,912	1.5	95.4	3.1
	1914	59	53	17	6,043	303	5,424	316	5.0	89.8	5.2	16,877,260	958,393	15,131,042	787,825	5.7	89.6	4.7
IRONTON	1919	9	31	12	1,971	70	1,635	257	4.0	83.0	13.0	14,071,850	251,935	12,895,963	923,952	1.8	91.6	6.6
	1914	14	31	14	1,420	94	1,143	183	6.6	80.5	12.9	4,666,185	143,954	4,307,442	214,789	3.1	92.3	4.6
KENMORE	1919	3	2	2	135	.....	[3] 135	.....	.....	100.0	.....	844,303	.....	[3] 844,303	.....	.....	100.0	.....
LAKEWOOD	1919	20	11	2	1,821	[2] 56	1,765	.....	3.1	96.9	.....	7,602,803	[2] 341,776	7,261,027	.....	4.5	95.5	.....
	1914	14	7	1	1,774	[2] 434	1,340	.....	24.5	75.5	.....	3,606,498	[2] 594,784	3,011,714	.....	16.5	83.5	.....
LANCASTER	1919	15	22	6	2,024	135	1,848	41	6.7	91.3	2.0	11,478,883	486,156	10,629,009	363,718	4.2	92.6	3.2
	1914	23	19	11	1,583	87	1,436	60	5.5	90.7	3.8	4,602,615	251,656	3,894,283	456,676	5.5	84.6	9.9
LIMA	1919	36	48	24	4,901	154	4,432	315	3.1	90.4	6.4	23,638,764	742,348	21,817,237	1,079,179	3.1	92.3	4.6
	1914	41	42	14	4,376	120	4,619	137	2.5	94.7	2.8	11,508,580	506,718	10,826,363	265,494	4.4	93.3	2.3
LORAIN	1919	14	29	12	11,677	40	11,594	43	0.3	99.3	0.4	116,908,616	264,619	116,270,233	373,764	0.2	99.5	0.3
	1914	28	32	6	6,436	40	6,336	60	0.6	98.4	0.9	29,110,037	144,226	28,905,193	60,618	0.5	99.3	0.2
MANSFIELD	1919	58	48	26	4,711	244	4,323	144	5.2	91.8	3.1	31,877,551	1,405,843	29,393,908	987,800	4.7	92.2	3.1
	1914	46	37	20	3,398	208	2,862	328	6.1	84.2	9.7	10,281,968	455,534	8,857,109	969,325	4.4	86.1	9.4
MARIETTA	1919	23	23	13	1,285	117	1,124	44	9.1	87.5	3.4	5,917,469	469,596	5,243,924	203,949	7.9	88.6	3.4
	1914	24	33	14	1,401	90	1,153	158	6.4	82.3	11.3	4,128,618	204,425	3,645,653	278,540	5.0	88.3	6.7
MARION	1919	28	35	7	4,125	107	3,924	94	2.6	95.1	2.3	20,712,973	641,808	19,701,159	370,006	3.1	95.1	1.8
	1914	27	27	12	2,577	74	2,479	24	2.9	96.2	0.9	6,384,364	212,432	6,082,327	90,105	3.3	95.3	1.4
MARTINS FERRY	1919	24	13	3	1,517	64	1,445	8	4.2	95.3	0.5	15,402,280	382,437	14,936,777	33,066	2.5	97.3	0.2
MASSILLON	1919	27	33	20	2,153	39	2,023	91	1.8	94.0	4.2	13,984,871	273,772	13,245,830	465,269	2.0	94.7	3.3
	1914	37	30	3	1,768	177	1,580	11	10.0	89.4	0.6	5,293,124	374,673	4,882,357	36,094	7.1	92.2	0.7

[1] Excludes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.
[2] Includes the group, "All others."
[3] Includes the groups, "Individuals" and "All others."

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

INDUSTRY AND CITY.	Census year.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.						
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.		
		Individuals.	Corporations.	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations	All others.		Individuals.	Corporations.	All others.	Individuals.	Corporations	All others.
MIDDLETOWN	1919	18	30	8	6,442	78	6,347	17	1.2	98.5	0.3	$62,838,289	$419,056	$62,186,586	$232,647	0.7	99.0	0.4
	1914	24	29	10	4,003	87	3,883	33	2.2	97.0	0.8	21,787,151	213,240	21,497,753	76,158	1.0	98.7	0.3
NEWARK	1919	30	34	15	4,570	250	4,261	59	5.5	93.2	1.3	16,563,149	1,266,076	13,982,829	1,314,244	7.6	84.4	7.9
	1914	34	25	20	4,533	220	3,858	505	4.8	84.2	11.0	9,276,762	465,729	7,857,081	953,952	5.0	84.7	10.3
NEW PHILADELPHIA	1919	25	14	4	1,247	95	1,145	7	7.6	91.8	0.6	8,445,658	448,767	7,927,927	68,964	5.3	93.9	0.8
NILES	1919	7	26	7	2,945	27	2,899	19	0.9	98.4	0.6	18,358,773	130,455	18,111,348	116,970	0.7	98.7	0.6
NORWOOD	1919	23	40	7	8,283	71	8,183	24	0.9	98.9	0.3	47,947,183	341,081	47,445,759	160,343	0.7	99.0	0.3
	1914	23	30	5	5,808	75	5,691	42	1.3	98.0	0.7	16,724,360	180,651	16,456,088	87,621	1.1	98.4	0.5
PIQUA	1919	28	33	5	3,293	259	3,016	18	7.9	91.6	0.5	19,921,345	1,643,497	18,125,110	152,738	8.2	91.0	0.8
	1914	34	30	14	2,777	122	2,544	111	4.4	91.6	4.0	7,988,279	501,810	7,229,095	257,374	6.3	90.5	3.2
PORTSMOUTH	1919	25	27	8	5,914	110	5,771	33	1.9	97.6	0.6	36,645,736	1,118,288	35,292,188	235,260	3.1	96.3	0.6
	1914	31	33	12	3,597	77	3,468	52	2.1	96.4	1.4	7,632,145	411,158	7,119,608	151,379	5.4	92.7	2.0
SALEM	1919	11	22	3	2,237	37	2,190	10	1.7	97.9	0.4	11,069,550	268,665	10,766,585	34,300	2.4	97.3	0.3
SANDUSKY	1919	44	57	14	3,447	207	3,063	177	6.0	88.9	5.1	19,248,571	1,236,751	17,179,147	832,673	6.4	89.2	4.3
	1914	41	53	13	2,727	157	2,415	155	5.8	88.6	5.7	8,284,865	504,681	7,273,361	506,823	6.1	87.8	6.1
SPRINGFIELD	1919	75	96	35	12,264	722	11,161	381	5.9	91.0	3.1	67,759,001	4,143,163	61,105,295	2,510,543	6.1	90.2	3.7
	1914	111	91	51	7,868	439	7,003	426	5.6	89.0	5.4	27,721,789	1,399,218	24,688,487	1,634,084	5.0	89.1	5.9
STEUBENVILLE	1919	23	22	12	3,855	87	3,725	43	2.3	96.6	1.1	30,903,344	505,746	30,091,041	306,557	1.6	97.4	1.0
	1914	23	22	15	4,506	78	4,375	53	1.7	97.1	1.2	16,958,987	220,660	16,510,323	228,004	1.3	97.4	1.3
TIFFIN	1919	29	22	24	2,213	286	1,860	67	12.9	84.0	3.0	10,516,369	1,162,006	8,643,414	710,949	11.0	82.2	6.8
	1914	33	22	21	2,177	317	1,757	103	14.6	80.7	4.7	4,995,880	932,100	3,821,406	242,374	18.7	76.5	4.8
TOLEDO	1919	244	336	91	42,090	1,180	40,054	856	2.8	95.2	2.0	293,520,900	8,537,745	281,196,519	3,786,636	2.9	95.8	1.3
	1914	290	303	120	27,076	1,041	24,632	1,403	3.8	91.0	5.2	115,049,426	3,246,273	107,234,008	4,569,085	2.8	93.2	4.0
WARREN	1919	31	47	18	2,433	70	2,286	77	2.9	94.0	3.2	19,747,395	451,148	18,794,812	501,435	2.3	95.2	2.5
	1914	33	39	10	2,862	86	2,697	79	3.0	94.2	2.8	10,399,737	208,895	9,964,379	226,463	2.0	95.8	2.2
YOUNGSTOWN	1919	91	107	41	19,414	345	19,001	68	1.8	97.9	0.4	241,458,370	2,482,657	238,339,112	636,601	1.0	98.7	0.3
	1914	86	82	33	15,861	278	15,439	144	1.8	97.3	0.9	92,111,272	771,844	90,776,424	563,004	0.8	98.6	0.6
ZANESVILLE	1919	35	44	18	3,014	543	2,343	128	18.0	77.7	4.2	13,437,777	1,283,716	11,119,929	1,034,132	9.6	82.8	7.7
	1914	44	40	13	3,035	553	1,639	838	18.4	54.0	27.6	8,300,231	875,880	4,205,411	3,218,940	10.6	50.7	38.8

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

	Census year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.[1]	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.			
			Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.	Number or amount.	Per cent of aggregate.
Number of places	1919		48		27		14		7			
	1914		41		25		11		5			
	1909		36		22		9		5			
Population[2]	1920	5,759,394	3,137,372	54.5	429,915	7.5	535,822	9.3	2,171,635	37.7	2,622,022	45.5
	1915	5,026,898	2,447,437	48.7	393,602	7.8	499,742	9.9	1,554,093	30.9	2,579,461	51.3
	1910	4,767,121	2,130,013	44.7	345,803	7.2	393,371	8.3	1,390,839	29.2	2,637,108	55.3
Number of establishments	1919	16,125	10,537	65.3	1,450	9.0	1,427	8.8	7,660	47.5	5,588	34.7
	1914	15,658	9,514	60.8	1,516	9.7	1,639	10.5	6,359	40.6	6,144	39.2
	1909	15,138	8,763	57.9	1,366	9.0	1,207	8.0	6,190	40.9	6,375	42.1
Average number of wage earners	1919	730,733	577,271	79.0	77,159	10.6	88,262	12.1	411,850	56.4	153,462	21.0
	1914	510,435	385,608	75.5	60,317	11.8	93,740	18.4	231,551	45.4	124,827	24.5
	1909	446,934	323,131	72.3	53,624	12.0	67,742	15.2	201,765	45.1	123,803	27.7
Value of products	1919	$5,100,308,728	$4,059,713,323	79.6	$457,606,475	9.0	$557,534,569	10.9	$3,044,572,279	59.7	$1,040,595,405	20.4
	1914	1,782,808,279	1,372,110,101	76.9	179,460,670	10.1	385,642,109	21.6	807,007,322	45.3	410,698,178	23.0
	1909	1,437,935,817	1,074,492,138	74.7	156,321,801	10.9	283,054,022	19.7	635,116,315	44.2	363,443,679	25.3
Value added by manufacture	1919	2,188,360,357	1,776,674,525	81.2	222,538,121	10.2	261,231,649	11.9	1,292,904,755	59.1	411,686,332	18.8
	1914	762,026,264	601,671,322	78.9	84,001,383	11.0	157,346,303	20.6	360,323,636	47.3	160,354,942	21.0
	1909	613,733,870	468,164,822	76.3	68,825,229	11.2	107,359,766	17.5	291,979,827	47.6	145,569,048	23.7

[1] Includes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.
[2] Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

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

CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase over 1914.[1] Amount.	Increase over 1914.[1] Per cent.
AKRON.				
Rubber tires, tubes, and rubber goods, not elsewhere specified	$462,092,527	83.8	$369,545,031	399.3
Foundry and machine-shop products	14,024,783	4.2	11,764,144	411.2
Bread and other bakery products	4,212,196	5.3	3,493,319	485.9
Printing and publishing, book and job	3,289,029	8.4	(2)	(2)
Lumber, planing-mill products, not including planing mills connected with sawmills	2,684,177	8.3	(2)	(2)
Stoves and hot-air furnaces	1,814,480	7.3	926,974	104.4
Liquors, malt	1,775,773	7.1	423,728	31.3
Printing and publishing, newspapers and periodicals	1,701,194	2.9	(2)	(2)
Brick and tile, terra-cotta, and fire-clay products	1,589,606	4.9	595,176	59.9
Automobile bodies and parts Automobiles Butter Confectionery and ice cream Flour-mill and gristmill products Food preparations, not elsewhere specified Oilcloth and linoleum Structural ironwork, not made in steel works or rolling mills Tools, not elsewhere specified	(2)	(2)	(2)	(2)
CANTON.				
Iron and steel, steel works and rolling mills	63,373,984	10.1	46,486,715	275.3
Foundry and machine-shop products [3]	8,592,801	2.5	2,832,688	49.2
Lumber, planing-mill products, not including planing mills connected with sawmills	2,643,835	8.2	2,531,854	2,261.0
Structural ironwork, not made in steel works or rolling mills	2,594,878	6.2	1,556,074	149.8
Bread and other bakery products	1,560,551	2.0	1,139,835	270.9
Agricultural implements	1,454,673	5.5	(2)	(2)
Printing and publishing	1,142,874	1.2	367,159	47.3
Automobiles Brass and bronze products Brick and tile, building brick, fancy, ornamental, vitrified, glazed, and enameled Electrical machinery, apparatus, and supplies Electroplating Furniture Iron and steel forgings, not made in steel works or rolling mills Safes and vaults, safes Slaughtering and meat packing, wholesale Springs, steel Stamped and enameled ware, not elsewhere specified, enameled ware	(2)	(2)	(2)	(2)
CINCINNATI.				
Slaughtering and meat packing	62,428,358	36.6	39,183,473	168.6
Foundry and machine-shop products [4]	50,717,768	12.3	35,398,296	231.1
Clothing, men's	32,254,217	55.4	18,921,107	141.9
Boots and shoes	31,223,081	43.8	16,698,003	115.0
Bread and other bakery products	14,140,223	17.9	7,754,547	121.4
Printing and publishing, book and job	10,678,735	27.2	4,884,401	84.3
Printing and publishing, newspapers and periodicals	10,567,143	18.0	4,542,249	75.4
Paints	10,333,139	28.0	6,531,577	171.8
Leather, tanned, curried, and finished	10,003,997	40.4	4,668,272	86.0
Confectionery and ice cream	9,428,209	24.1	(2)	(2)
Butter	8,824,102	21.5	(2)	(2)
Liquors, malt	7,789,700	31.0	−2,563,107	−24.8
Coffee and spice, roasting and grinding	6,611,920	22.6	4,325,872	189.2
Furniture	5,890,337	10.7	(2)	(2)
Tobacco, cigars	5,882,781	20.4	(2)	(2)
Stoves and hot-air furnaces	5,251,557	21.0	(2)	(2)
Automobile bodies and parts	5,207,453	5.6	(2)	(2)
Clothing, women's	5,135,218	10.5	2,563,649	100.1
Copper, tin, and sheet-iron work	4,805,466	30.4	2,026,385	72.9
Shirts	4,248,835	57.5	2,477,107	139.8
Cars and general shop construction and repairs by steam-railroad companies	4,026,932	4.2	3,056,276	314.9
Brass, bronze, and copper products	3,641,519	13.1	2,454,817	206.9
Lumber, planing-mill products, not including planing mills connected with sawmills	3,122,558	9.6	1,650,262	112.1
Automobiles Bags, paper, exclusive of those made in paper mills Baking powders and yeast Glass Ink, printing Lamps Oil and cake, cottonseed Oleomargarine Pickles, preserves, and sauces Soap Steam fittings and steam and hot-water heating apparatus Waste	(2)	(2)	(2)	(2)
CLEVELAND.				
Foundry and machine-shop products [5]	$120,423,404	28.3	$85,463,841	244.5
Automobiles	110,254,504	38.4	87,510,776	384.8
Iron and steel, steel works and rolling mills	84,424,721	13.5	51,035,892	152.9
Slaughtering and meat packing	71,061,098	41.7	47,850,775	206.2
Electrical machinery, apparatus, and supplies	52,324,151	33.3	40,966,613	360.7
Automobile bodies and parts	44,312,932	48.0	39,940,065	913.4
Clothing, women's	35,307,741	72.5	19,004,449	117.4
Stoves, gas and oil	19,489,305	32.7	12,282,587	170.4
Clothing, men's	19,433,496	33.4	10,916,618	128.2
Bread and other bakery products	19,413,046	24.6	12,505,438	181.0
Tools, not elsewhere specified	17,602,520	54.1	(2)	(2)
Paints	17,436,225	47.3	9,900,527	131.4
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	17,264,120	73.6	13,722,192	387.4
Printing and publishing, newspapers and periodicals	15,570,029	26.6	9,271,749	147.2
Printing and publishing, book and job	13,382,254	34.1	7,529,906	128.7
Iron and steel forgings, not made in steel works or rolling mills	13,373,139	33.8	11,619,109	662.4
Structural ironwork, not made in steel works or rolling mills	11,721,132	28.0	5,685,463	94.2
Cars and general shop construction and repairs by steam-railroad companies	11,571,425	12.0	6,613,557	133.4
Confectionery and ice cream	11,375,042	29.0	(2)	(2)
Knit goods	10,003,277	53.3	5,952,125	146.9
Varnishes	9,050,542	66.4	6,493,261	253.9
Chemicals	7,593,467	23.2	4,463,497	142.6
Wirework, including wire rope and cable, not elsewhere specified	7,071,352	81.2	4,585,391	184.5
Brass and bronze products	6,022,233	23.8	4,131,114	165.8
Coffee, roasting and grinding	6,171,429	21.1	(2)	(2)
Oil, not elsewhere specified	5,906,753	65.7	4,332,937	275.3
Liquors, malt	5,774,228	22.9	−753,940	−11.5
Plumbers' supplies, not elsewhere specified	5,393,331	66.7	3,172,878	142.9
Aluminum manufactures Bags, other than paper, not including bags made in textile mills Coke, not including gas-house coke Hardware Iron and steel, blast furnaces Iron and steel, wrought pipe Petroleum, refining Rubber tires, tubes, and rubber goods, not elsewhere specified Screws, machine Shipbuilding, steel Wire Worsted goods	(2)	(2)	(2)	(2)
COLUMBUS.				
Foundry and machine-shop products	18,632,901	5.4	12,912,994	225.8
Cars and general shop construction and repairs by steam-railroad companies	15,213,729	15.8	9,812,235	181.7
Boots and shoes	10,198,135	14.3	4,973,787	95.2
Slaughtering and meat packing	6,510,428	3.8	(2)	(2)
Bread and other bakery products	5,203,881	6.6	3,084,955	145.6
Printing and publishing, newspapers and periodicals	4,094,919	7.0	1,973,107	93.0
Automobile bodies and parts	3,668,580	4.0	(2)	(2)
Fertilizers	2,832,917	20.2	(2)	(2)
Confectionery and ice cream	2,575,127	6.6	1,685,520	189.5
Printing and publishing, book and job	2,185,510	5.6	1,148,878	110.8
Lumber, planing-mill products, not including planing mills connected with sawmills	1,691,612	5.2	858,298	103.0
Stoves, ranges, and hot-air furnaces, including gas and oil stoves	1,133,663	2.3	281,685	33.1
Automobiles Butter Cars, steam-railroad, not including operations of railroad companies Dental goods Flour-mill and gristmill products Furniture Glass Iron and steel, blast furnaces Iron and steel, steel works and rolling mills Iron and steel, bolts, nuts, washers, and rivets Iron and steel, forgings Liquors, malt Oilcloth, enameled Oleomargarine Paints Regalia, and society badges and emblems Tobacco, cigars Wool pulling	(2)	(2)	(2)	(2)
DAYTON.				
Foundry and machine-shop products [6]	16,085,156	3.8	10,499,522	188.0
Slaughtering and meat packing	8,414,683	4.9	3,584,036	74.2
Bread and other bakery products	4,522,347	5.7	2,509,570	124.7

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

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

CITY AND INDUSTRY.	VALUE OF PRODUCTS. Amount, 1919.	Per cent of total for the state.	Increase over 1914. Amount.	Per cent.
DAYTON—Continued.				
Tools, not elsewhere specified	$3,785,457	11.6	$3,709,655	4,893.9
Tobacco, cigars and cigarettes	3,057,848	10.6	1,002,417	48.8
Printing and publishing, newspapers and periodicals	2,630,616	4.5	1,523,089	137.5
Stationery goods, not elsewhere specified	2,564,132	55.2	(1)	(1)
Pumps, steam and other power	2,064,211	60.7	(1)	(1)
Lumber, planing-mill products, not including planing mills connected with sawmills	2,036,429	6.3	(1)	(1)
Clothing, men's	1,787,391	3.1	(1)	(1)
Furniture	1,488,981	4.2	664,158	80.5
Confectionery and ice cream	1,473,323	3.8	(1)	(1)
Brass, bronze, and copper products	1,271,610	4.6	939,140	282.5
Boxes, paper and other, not elsewhere specified	1,256,869	12.5	393,372	45.6
Printing and publishing, book and job	1,012,880	2.6	540,038	114.2
Automobile bodies and parts Cash registers and calculating machines Chemicals Coffee, roasting and grinding Electrical machinery, apparatus, and supplies Envelopes Iron and steel, steel works and rolling mills Liquors, malt Motorcycles, bicycles, and parts Ordnance and accessories Paints Paper and wood pulp Patent medicines and compounds Rubber tires, tubes, and rubber goods, not elsewhere specified Scales and balances Soap	(1)	(1)	(1)	(1)
SPRINGFIELD.				
Agricultural implements	7,205,752	27.1	1,444,241	25.1
Foundry and machine-shop products [2]	7,166,220	2.1	3,372,172	88.9
Engines, steam, gas, and water	4,180,910	9.8	2,866,848	218.2
Musical instruments, piano materials	2,036,594	65.9	1,279,044	168.8
Automobiles Coffins, burial cases, and undertakers' goods Electrical machinery, apparatus, and supplies Flour-mill and gristmill products Iron and steel, steel works and rolling mills Printing and publishing, newspapers and periodicals Signs and advertising novelties Slaughtering and meat packing	(1)	(1)	(1)	(1)
TOLEDO.				
Foundry and machine-shop products [3]	27,468,943	6.5	20,924,341	319.7
Electrical machinery, apparatus, and supplies	19,245,500	12.3	16,015,618	495.9
Flour-mill and gristmill products	13,432,512	15.0	7,617,124	131.0
Automobile bodies and parts	5,922,578	6.4	(1)	(1)

CITY AND INDUSTRY.	VALUE OF PRODUCTS. Amount, 1919.	Per cent of total for the state.	Increase over 1914. Amount.	Per cent.
TOLEDO—Continued.				
Bread and other bakery products	$5,774,946	7.3	$3,467,735	150.3
Butter	4,324,608	10.5	(1)	(1)
Clothing, women's	4,163,468	8.5	1,729,898	71.1
Printing and publishing, newspapers and periodicals	3,514,811	6.0	1,680,506	91.6
Gloves and mittens, cloth, not including those made in textile mills	2,840,984	37.5	(4)	(4)
Confectionery and ice cream	2,776,615	7.1	(1)	(1)
Cars and general shop construction and repairs by steam-railroad companies	2,609,557	2.7	1,407,628	117.1
Printing and publishing, book and job	2,279,574	5.8	1,316,787	136.8
Lumber, planing-mill products, not including planing mills connected with sawmills	2,238,609	6.9	757,973	51.2
Automobiles Awnings, tents, and sails Bags, paper, exclusive of those made in paper mills Brass, bronze, and copper products Carriages and sleds, children's Coffee and spice, roasting and grinding Coke, not including gas-house coke Fancy articles, not elsewhere specified Glass Iron and steel, blast furnaces Iron and steel, wrought pipe Liquors, malt Oil, linseed Pens, fountain and stylographic Petroleum, refining Pickles and sauces Rubber tires, tubes, and rubber goods, not elsewhere specified Scales and balances Shipbuilding, steel Slaughtering and meat packing Springs, steel, automobile Stoves and hot-air furnaces Structural ironwork, not made in steel works or rolling mills Tinware, not elsewhere specified Tobacco, chewing and smoking, and snuff Toys and games Wood preserving	(1)	(1)	(1)	(1)
YOUNGSTOWN.				
Foundry and machine-shop products	9,604,195	2.8	6,526,250	212.0
Bread and other bakery products	2,712,504	3.4	2,092,618	337.6
Printing and publishing	2,082,236	2.1	1,290,459	163.0
Coke, not including gas-house coke Electrical machinery, apparatus, and supplies Furniture Iron and steel, blast furnaces Iron and steel, steel works and rolling mills Iron and steel, wrought pipe Rubber tires, tubes, and rubber goods, not elsewhere specified Structural ironwork, not made in steel works or rolling mills	(1)	(1)	(1)	(1)

[1] Figures can not be shown without disclosing individual operations.
[2] Includes "iron and steel, tempering and welding" and "machine tools."
[3] Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."
[4] Not reported for 1914.

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

POWER.	NUMBER OF ENGINES OR MOTORS. 1919	1914	1909	HORSEPOWER. Amount. 1919	1914	1909	Per cent distribution. 1919	1914	1909
Primary power, total	93,713	44,188	25,970	2,897,497	1,993,080	1,583,155	100.0	100.0	100.0
Owned	10,814	12,738	13,012	1,939,666	1,712,136	1,483,628	66.9	85.9	93.7
Steam [1]	7,722	8,346	9,246	1,782,512	1,541,212	1,363,720	61.5	77.3	86.1
Engines	7,150	(2)	(2)	1,407,558	(2)	(2)	48.6	.....	.....
Turbines	572	(2)	(2)	374,954	(2)	(2)	12.9	.....	.....
Internal-combustion engines	2,797	4,059	3,354	147,039	156,481	103,801	5.1	7.9	6.6
Water	295	333	412	10,115	14,443	16,107	0.3	0.7	1.0
Water wheels and turbines	227	284	373	9,461	13,930	15,777	0.3	0.7	1.0
Water motors	68	49	39	654	513	330	(3)	(3)	(3)
Rented	82,899	31,450	12,958	957,831	280,944	99,527	33.1	14.1	6.3
Electric	82,899	31,450	12,958	945,341	273,814	93,592	32.6	13.7	5.9
Other	.....	.....	.....	12,490	7,130	5,935	0.4	0.4	0.4
Electric	129,118	66,137	34,237	1,764,724	823,000	417,844	100.0	100.0	100.0
Rented	82,899	31,450	12,958	945,341	273,814	93,592	53.7	33.3	22.4
Generated by establishments reporting	46,219	34,687	21,279	819,383	549,186	324,252	46.4	66.7	77.6

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

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

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....1919	108,606	25,483,869	8,640,711	1,837,053	188,553	45,014,790
1914	43,198	13,927,612	6,267,733	678,239	(1)	50,092,157
Per cent of increase [2]	151.4	83.0	37.9	198.7		-10.1
Agricultural implements	27	42,777	11,523	10,525	281	174,734
Automobile bodies and parts	579	67,219	5,230	33,113	5,631	225,321
Automobiles		200,434	213	93,998	26,529	189,379
Automobile repairing	135	10,485	57	88	296	60,590
Boots and shoes, not including rubber boots and shoes	8	77,346		6	22	58,620
Boxes, paper and other, not elsewhere specified	145	8,582		3	2	17,725
Brass, bronze, and copper products	2,154	52,911	16,634	42,113	3,808	102,692
Bread and other bakery products	4,841	36,499	17,386	149	3,626	1,528,007
Brick and tile, terra-cotta, and fire-clay products	2,453	1,493,487	947	7,742	2,064	886,210
Cars and general shop construction and repairs by steam-railroad companies	10,153	715,394	5,095	61,945	1,090	33,449
Cars, steam-railroad, not including operations of railroad companies		22,444	582	8,369	2	98,448
Cash registers and calculating machines	70	42,297	2,050	2,683	1,009	19,789
Chemicals	596	714,592	96,108	226	8,424	75,086
Clothing, men's	104	6,059	3	60	53	59,532
Clothing, women's	470	11,197			1	90,374
Coke, not including gas-house coke		7 995,889	53			37,951
Confectionery and ice cream	517	34,362	392	64	1,396	226,468
Copper, tin, and sheet-iron work	199	4,712	582	262	167	62,346
Cutlery and edge tools	402	5,232	12	56,474	385	14,864
Electrical machinery, apparatus, and supplies	2,355	104,243	12,880	31,553	1,860	611,664
Engines, steam, gas, and water	339	34,407	6,778	3,498	2,725	282,852
Flour-mill and gristmill products	100	105,017	135	2,315	2,554	212,076
Foundry and machine-shop products	5,312	764,873	222,524	269,231	21,659	7,146,061
Furniture	27	64,753	6		134	108,831
Gas, illuminating and heating	1,610	43,067	2,692	12,754	96	18,080
Glass	905	339,738	85	16,994	325	5,800,995
Gloves and mittens, cloth, not including gloves made in textile mills	300	2,214	9			2,146
Hardware		59,341	2,052	8,303	30	1,123,413
Ice, manufactured	256	251,359		2	1,645	422,734
Iron and steel, blast furnaces		650,212	7,743,804	1,266	6,056	72,842
Iron and steel, steel works and rolling mills	1,175	5,096,601	284,874	565,975	9,854	15,294,674
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	2,040	42,840	716	36,534	399	206,835
Iron and steel, forgings, not made in steel works or rolling mills	48	250,571	22,987	244,301	308	552,495
Iron and steel, wrought pipe	2,002	138,220	12,013	16,804	164	100,739
Knit goods	2	11,777	9	105		4,626
Liquors, malt	135	262,081		200	823	229,306
Lumber and timber products	100	9,665			182	3,518
Lumber, planing-mill products, not including planing mills connected with saw-mills	268	197,873	124	225	841	75,123
Machine tools	269	61,004	2,955	23,059	784	75,223
Marble and stone work, except slate	35	22,163	68	124	598	43,514
Mineral and soda waters	112	10,431	74	9	1,325	17,709
Motorcycles, bicycles, and parts		10,532	3,000	4,534	198	76,982
Paints		22,441	3,312			50,169
Paper and wood pulp	275	706,085		5,126		
Patent medicines and compounds	217	5,184	21	331	11	20,378
Petroleum, refining	39,198	418,777	1,969	52,248	31	137,170
Plumbers' supplies, not elsewhere specified	632	5,234	2,006	3,775	249	52,863
Pottery	810	225,764		24	221	3,882,784
Printing and publishing, book and job	224	9,645	157	6	172	136,495
Printing and publishing, newspapers and periodicals	98	18,430	47	15	469	217,270
Rubber tires, tubes, and rubber goods, not elsewhere specified	3,730	1,156,810		58,759	23,920	236,382
Safes and vaults	948	6,641	398	6,300	164	16,348
Screws, machine	15	19,880	8	9,299	106	59,854
Shipbuilding, steel, new vessels and repair work	759	68,271	4,338	839	33,078	442,676
Slaughtering and meat packing		148,512	204	1,054	2,397	71,483
Springs, steel, automobile		13,385		39,945	300	635,030
Stamped and enameled ware, not elsewhere specified	4	89,525	1,583	3,020	1	117,555
Steam fittings and steam and hot-water heating apparatus		15,664	5,822	14,104		15,334
Stoves and hot-air furnaces	110	26,760	20,939	3	4,182	50,557
Stoves, gas and oil	36	27,540	650	4,710	618	77,668
Structural ironwork, not made in steel works or rolling mills	205	42,091	1,793	9,312	456	58,799
Tinware, not elsewhere specified	8	13,669	131	35	7	46,780
Tobacco, cigars and cigarettes	306	4,719		1	24	45,401
Tools, not elsewhere specified	449	19,808	969	18,663	148	154,243
Wirework, including wire rope and cable, not elsewhere specified	3	13,998	1,190	1,307	388	34,885
All other industries	20,336	2,345,236	120,522	52,571	14,260	2,008,903
Total for cities [3]	96,564	15,742,736	5,818,163	1,493,769	129,015	30,628,258
AKRON	3,724	1,150,213	12,413	81,208	27,883	329,410
ALLIANCE	7,039	168,716	3,091	12,167	443	16,461
ASHTABULA	806	44,142	1,305	6,685	470	377,861
BARBERTON		430,856	40,126	17,025	523	84,385
BELLAIRE	3	77,059	130,554	121		457,157
BUCYRUS	435	72,967	881	4,789	112	34,916
CAMBRIDGE		93,914	44		12	99,242
CANTON	1,793	657,932	15,802	208,314	1,452	2,564,947
CHILLICOTHE		76,068	25	1,264		44,844
CINCINNATI	1,602	545,582	21,248	15,109	11,526	1,406,856

[1] Included in figures for fuel oils.
[2] A minus sign (—) denotes decrease.
[3] Excludes Cleveland Heights and East Youngstown, 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, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
CLEVELAND	20,604	3,536,718	1,467,347	581,889	43,588	7,040,842
COLUMBUS	286	340,702	189,629	62,054	6,525	1,531,402
COSHOCTON	.....	29,047	3,375	.....	157	117,439
CUYAHOGA FALLS	.....	10,090	2,290	1,567	2	8,328
DAYTON	430	354,049	22,904	20,042	3,099	375,253
EAST CLEVELAND	10	420	3	.....	.....	4,667
EAST LIVERPOOL	562	34,691	600	.....	44	2,140,231
ELYRIA	515	68,475	2,022	5,488	5,348	235,780
FINDLAY	73	26,250	409	434	384	96,238
FREMONT	95	32,622	709	38,764	476	91,667
HAMILTON	7	174,637	15,857	7,501	270	76,468
IRONTON	5	464,848	265,197	.....	.....	268,400
KENMORE	.....	404	.....	.....	.....	68
LAKEWOOD	60	35,362	5,179	5,278	288	19,625
LANCASTER	.....	22,314	692	161	83	219,405
LIMA	330	73,140	4,035	15,237	1,714	25,919
LORAIN	171	1,989,654	848,575	118,146	6,208	205,895
MANSFIELD	1,613	22,315	3,301	14,909	1,524	296,940
MARIETTA	.....	6,017	360	.....	19	201,845
MARION	1,121	63,370	4,283	37,110	509	360,885
MARTINS FERRY	.....	84,651	60,765	.....	1	12,381
MASSILLON	2,000	87,985	2,007	2,395	388	20,329
MIDDLETOWN	228	389,883	3,000	61,243	1,846	1,015,611
NEWARK	110	155,380	5,700	6,508	4,829	1,998,306
NEW PHILADELPHIA	.....	74,472	536	.....	4	9,824
NILES	6	134,302	36,641	8,582	95	47,858
NORWOOD	487	75,109	1,633	6,434	994	70,452
PIQUA	25	31,261	2,313	72	6	14,239
PORTSMOUTH	4	686,995	29,942	.....	.....	136,666
SALEM	503	25,579	2,943	1	314	130,470
SANDUSKY	3,101	141,242	3,710	5,715	1,474	3,302,614
SPRINGFIELD	7	92,121	12,599	11,210	255	1,712,043
STEUBENVILLE	510	195,609	231,061	.....	69	681,966
TIFFIN	1,414	30,283	2,369	6,521	4	294,814
TOLEDO	46,653	1,072,169	266,740	98,945	4,896	1,626,920
WARREN	160	31,592	1,135	1,152	561	197,546
YOUNGSTOWN	72	1,741,342	2,082,024	29,324	513	212,138
ZANESVILLE	.....	90,187	10,739	405	107	410,645

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 20 of these industries in Ohio are here presented.

Iron and steel, blast furnaces (Table 19).—This table presents the statistics for the pig-iron industry of the state for 1919, 1914, and 1909. The state ranks second in the industry (Pennsylvania first) and produced 23.2 per cent of the tonnage of the country in 1919, 22.7 per cent in 1914, and 21.2 per cent in 1909. All but one-half of 1 per cent was coke iron in 1919, as compared with 1.1 per cent in 1914 and 1.3 per cent in 1909. The small production made with fuel other than coke in 1919 was made with mixed bituminous coal and coke.

The production in 1919 was an increase of 34 per cent over that of 1914 and 29.9 per cent over 1909, with increases in values of 146.3 per cent and 115.2 per cent, respectively. Iron for steel making—the basic and Bessemer grades—constituted 83.5 per cent of the production in 1919, 84.4 per cent in 1914, and 78.8 per cent in 1909, not including the ferroalloys; while foundry iron constituted 9.2 per cent in 1919, 10.4 per cent in 1914, and 13.2 per cent in 1909. Of the pig-iron output, 57.1 per cent was handled molten in 1919 and 29.4 per cent was machine cast; 53 per cent molten and 31 per cent machine cast in 1914; and 50 per cent molten and 17.3 per cent machine cast in 1909.

TABLE 19.—IRON AND STEEL, BLAST FURNACES: 1919, 1914, AND 1909.

[Ton of 2,240 pounds, except as otherwise stated.]

	1919	1914	1909
MATERIALS.			
Total cost	$137,686,107	$60,738,524	$68,424,722
Iron ore:			
Tons	12,449,590	9,624,750	9,884,358
Cost	$71,456,065	$36,348,602	$41,830,645
Average per ton	$5.75	$3.80	$4.25
Scrap, mill cinder, scale, slag, fine dust, etc.:			
Tons	759,719	353,518	368,931
Cost	$3,971,192	$806,739	$1,041,384
Average per ton	$5.25	$2.30	$2.80
Fluxing material:			
Tons	3,484,609	2,752,381	2,693,423
Cost	$6,054,043	$2,796,342	$2,597,107
Average per ton	$1.75	$1.00	$0.95
Fuel for smelting	$46,670,272	$18,852,678	$20,593,130
Coke—			
Tons (2,000 lbs.)	7,715,245	5,816,260	6,050,491
Cost	$46,600,139	$18,750,140	$20,433,686
Average per ton	$6.00	$3.20	$3.40
Other (bituminous coal, 1919; coal and charcoal, 1914 and 1909)	$70,133	$102,538	$159,444
All other materials, cost	$9,534,535	$1,934,163	$2,362,456
PRODUCTS.			
Total value	$179,233,435	$72,969,308	$83,699,238
Pig iron:			
Tons	7,073,337	5,279,045	5,446,971
Value	$176,592,690	$71,080,701	$82,048,712
Average unit value, ton	$24.95	$13.60	$15.05
For consumption in works of company producing—			
Tons	5,327,132	3,877,188	3,564,358
Per cent of total	75.3	73.4	65.4
Assigned value	$126,343,702	$52,469,007	$53,108,589
For sale—			
Tons	1,746,205	1,401,857	1,882,613
Per cent of total	24.7	26.6	34.6
Value	$50,248,988	$19,217,694	$28,940,123
Classified according to smelting fuel.			
Coke:			
Tons	7,037,592	5,219,564	5,376,398
Value	$175,207,027	$70,759,573	$80,813,570
Other fuel:			
Tons	35,745	59,481	70,573
Value	$1,385,663	$927,128	$1,235,142
Classified by grades.			
Bessemer tons	3,356,796	2,880,759	3,456,131
Basic tons	2,550,134	1,516,905	798,173
Foundry tons	649,619	541,354	714,322
Malleable tons	364,614	194,606	304,067
Forge or mill tons	122,632	75,095	60,805
All other, including direct castings tons	29,542	4,548	6,121
Ferroalloys tons	(1)	65,778	47,352
Classified by method of delivery or casting.			
Molten to steel works, etc. tons	4,036,452	2,797,254	2,723,700
Machine cast tons	2,078,216	1,635,242	945,036
Sand cast tons	677,157	636,639	1,625,073
Chill cast and direct castings tons	281,512	209,910	153,162
All other products, value	$2,640,745	$1,282,667	$1,650,526

[1] Not included in the blast-furnace industry in 1919: See "Ferroalloys"—Production of blast furnace ferroalloys 36,038 tons of ferrosilicon, value $1,454,831.

Iron and steel, steel works and rolling mills.—Table 20 presents the state statistics for steel furnaces and hot-rolling mills. The plants produced 24.7 per cent of the rolled, forged, and other classified products of the country in 1919 and in 1914 and 22.1 per cent in 1909. There was an increase of 42.1 per cent in tonnage in 1919, as compared with 1914, and 51.8 per cent with respect to 1909. The total value of the rolled, forged, or other classified products increased 217.5 per cent during the five-year period 1914–1919, and 222.2 per cent from 1909 to 1919. The figures show an average unit value of approximately $62 per ton in 1919, $28 in 1914, and $29 in 1909.

The steel production in 1919, 8,175,960 tons, was approximately 68 per cent of the capacity of the furnaces operating on double turn for 300 working days, as compared with 65.6 per cent in 1914, and 72.3 per cent in 1909.

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

[Ton of 2,240 pounds.]

	1919	1914	1909
MATERIALS.[1]			
Total cost	$381,059,673	$139,676,491	$139,243,155
Pig iron:			
Tons	5,784,072	4,341,857	4,172,114
Cost	$137,971,046	$59,180,555	$62,747,851
Ferroalloys—spiegeleisen, ferromanganese, etc.:			
Tons	100,927	46,166	37,035
Cost	$18,417,505	$2,928,818	$1,694,127
Scrap (not produced in establishment reporting):			
Tons	1,365,875	855,163	530,408
Cost	$25,982,418	$9,452,349	$8,093,044
Steel, crude and semifinished (not produced in establishment reporting):			
Tons	2,812,098	1,902,828	1,858,171
Cost	$115,948,407	$38,370,551	$40,358,367
Rolled forms for further manufacture (not produced in establishment reporting):			
Tons	9,630	102,981	154,683
Cost	$550,385	$2,732,071	$4,438,205
Iron ore:			
Tons	157,933	147,464	75,857
Cost	$1,394,362	$455,440	$384,303
All other materials, including fuel and rent of power, cost	$80,795,460	$26,556,707	$21,527,258
PRODUCTS.			
Total value	$626,370,025	$205,023,391	$197,780,043
Rolled, forged, and other classified iron and steel products:			
Tons	8,956,138	6,303,890	5,898,690
Value	$554,496,299	$174,638,132	$172,105,247
Finished rolled products and forgings—			
Plates and sheets—			
Tons	1,676,048	988,997	755,010
Value	$143,189,210	$38,892,399	$33,800,603
Black plates or sheets for tinning—			
Tons	190,094	176,835	111,156
Value	$16,713,092	$7,424,689	$5,808,639
Skelp—			
Tons	1,281,747	955,597	739,761
Value	$74,905,772	$24,478,568	$22,198,365
Bars for reinforced concrete—			
Tons	45,037	77,309	70,978
Value	$2,766,625	$2,233,658	$2,063,084
Merchant bars—			
Tons	1,065,738	1,250,614	1,424,049
Value	$39,538,320	$40,319,111	$42,888,567
All other—			
Tons	725,450		
Value	$46,234,339		
Semifinished rolled products (sold or transferred to other works of same company):			
Blooms, billets, and slabs—			
Tons	2,493,271	1,708,862	1,975,730
Value	$102,727,692	$33,187,270	$42,301,868
Sheet and tin-plate bars—			
Tons	1,258,189	1,033,972	[2] 695,857
Value	$53,028,077	$20,877,350	$16,027,395
Unrolled steel (sold or transferred to other works of same company):			
Ingots—			
Tons	92,849	8,369	32,223
Value	$3,049,795	$146,679	$613,540
Direct castings—			
Tons	127,715	103,335	93,926
Value	$22,343,371	$7,078,409	$6,343,186
All other products, including scrap and value added to steel or iron rolling mill products by further manufacture, value	$71,873,726	$30,385,259	$25,674,796
Steel production.			
Total tons	8,175,960	5,449,981	4,705,337
Ingots tons	8,048,245	5,346,646	4,611,411
Castings tons	127,715	103,335	93,926
Classified according to process:			
Open hearth tons	5,078,637	2,589,535	1,377,216
Basic tons	5,028,689	2,554,956	1,306,694
Acid tons	49,948	34,579	70,522
Bessemer tons	3,039,293	2,860,129	3,327,351
Crucible and electric tons	58,030	317	770

[1] Includes material purchased and the quantity and assigned value of that transferred to the establishment reporting from other works of the same company.
[2] Includes 15,875 tons of muck and scrap bar.

Rubber tires, tubes, and rubber goods (Table 21).—This table presents the quantities and values of the various classes of rubber goods for 1919 and 1914. It shows a remarkable growth in the industry during the five-year period 1914–1919, particularly in the production of automobile tires; pneumatic tires and tubes alone show an increase of 330.7 per cent in the number manufactured. In addition to the statistics contained in the table one establishment in Ohio was engaged exclusively in the manufacture of rubber belting and hose, for which statistics could not be included without the possibility of disclosing individual operations.

TABLE 21.—RUBBER TIRES, TUBES, AND RUBBER GOODS: 1919 AND 1914.

	1919	1914
Number of establishments	96	54
Products, total value	$551,118,488	$109,658,605
Tires:		
Pneumatic—		
Automobile—		
Casings—		
Number	19,726,962	8,850,625
Value	$362,932,865	$71,776,078
Inner tubes—		
Number	18,391,065	
Value	$41,430,711	
Motorcycle and bicycle—		
Casings—		
Number	1,758,832	643,419
Value	$5,743,923	$1,570,244
Inner tubes—		
Number	301,394	
Value	$417,370	
Solid—		
Truck—		
Number	1,072,627	(1)
Value	$36,599,616	$11,897,710
All other—		
Number	1,606,137	
Value	$3,581,131	
Boots and shoes:		
Heels—		
Pairs	89,269,519	(1)
Value	$10,265,011	(1)
Rubberized fabrics:		
Automobile and carriage—		
Yards	6,877,538	(2)
Value	$783,254	(2)
All other—		
Yards	20,661,588	(2)
Value	$4,346,991	(2)
Belting, value	$5,730,341	$2,154,696
Hose, value	$7,554,285	$4,194,576
Packing, value	$2,794,756	$851,807
Druggists' and stationers' sundries, value	$5,661,572	$2,513,049
Hard rubber goods, value	$12,851,621	(2)
All other manufactures of rubber, value	$47,136,950	$13,541,459
All other products, value	$3,283,091	$1,158,086

[1] Figures not available. [2] Not reported separately.

Automobiles, including bodies and parts (Table 22).—The following table shows the number and value of the different classes of automobiles manufactured during 1919, 1914, and 1909. The total number of automobiles of all kinds manufactured increased 143,005, or 211.9 per cent, while the total value of all products, including bodies and parts, increased $293,725,893, or 342.7 per cent, during the five-year period 1914–1919. Of the automobiles manufactured in 1919, 93.9 per cent were pleasure vehicles, 79.6 per cent of which were touring cars. Trucks, which represent 78.9 per cent of the business vehicles manufactured in the state during 1919, show an increase in number of 2,533, or 33.3 per cent.

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

PRODUCT.	1919		1914		1909	
	Number.	Value.	Number.	Value.	Number.	Value.
Total value[1]	.....	$379,436,478	.....	$85,710,585	.....	$38,838,754
Automobiles, total	210,488	198,916,292	67,483	69,465,370	14,299	23,550,112
Pleasure vehicles	197,647	170,025,986	58,548	53,835,446	13,493	22,630,862
Touring cars	157,354	123,097,625	49,421	44,800,434	6,479	14,307,360
Closed cars	22,349	30,913,944	2,010	4,251,172	1,072	2,526,891
Runabouts	12,137	8,673,108	7,117	4,783,840	2,900	2,948,588
Roadsters	5,807	7,341,309	(2)	(2)	[3]3,042	[3]2,848,023
Business vehicles	12,841	28,890,306	8,935	15,629,924	806	919,250
Trucks	10,131	22,958,704	7,598	13,611,631	202	386,945
All other [4]	2,710	5,931,602	1,337	2,018,293	604	532,305
Chassis	30,902	45,670,445	(5)	(5)	(5)	(5)
Trailers	4,327	2,741,960	(5)	(5)	(5)	(5)
All other products, including bodies and parts and repairs	.....	132,107,781	.....	16,245,215	.....	15,288,642

[1] In addition, 531 automobiles, valued at $944,283 in 1919, and 102 automobiles valued at $159,850 in 1914, were manufactured by establishments engaged primarily in other industries.
[2] Included with "Runabouts" in 1914.
[3] Reported as "All other" in 1909.
[4] Includes delivery wagons, to avoid disclosure of individual operations.
[5] Not reported separately in 1914 and 1909.

Slaughtering and meat packing (Table 23).—This table presents, for the census years 1919, 1914, and 1909, data as to the kind, number, and cost of animals slaughtered; the cost of all other materials, which includes that for poultry, horses, goats and kids, dressed meat purchased for curing, cottonseed oil for making lard compounds and substitutes, curing materials, seasoning, refrigeration, containers, whole milk and butter for making oleomargarine, fuel, rent of power, mill supplies, and freight; and the quantity and value of the principal products that can be shown without disclosing the operations of individual establishments. The value of minor specified products are grouped under "All other products" and include canned beef and pork, canned sausage, lard compounds and substitutes, oleo oil, oleomargarine, hoofs, horns, and horntips, strips and waste, skins (other than cattle, calf, and sheep), hog and cattle hair, and stock food. The value of goat meat, dressed poultry, and horse meat is included in "Edible offal and all other fresh meat."

The actual growth of the industry is measured by the increase of 31.9 per cent in the number of animals slaughtered in 1919 over 1914. This increase was in all classes, except sheep and lambs, the largest being 630,696, or 33 per cent, in the number of hogs. The abnormal increase in the total cost of animals in this period—$83,636,764, or 159.2 per cent—was due to the high prices prevailing as a result of the World War. The production of fresh meat was 109,966,632 pounds more in 1919 than in 1914, and that of cured meat was 56,450,247 pounds more. The total meat production, including sausage, in 1919, was 575,933,554 pounds, and including canned meat and sausage, 580,484,484 pounds.

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

	1919	1914	1909
MATERIALS.			
Total cost	$150,598,439	$58,296,970	$43,639,913
Animals slaughtered, cost	$136,165,871	$52,529,107	$38,633,858
Beeves—			
Number	410,080	269,719	265,191
Cost	$35,531,201	$16,375,682	$11,613,314
Calves—			
Number	249,487	141,358	150,223
Cost	$5,579,538	$1,931,710	$1,599,585
Sheep and lambs—			
Number	258,291	300,337	229,985
Cost	$2,103,814	$1,418,726	$872,989
Hogs—			
Number	2,542,304	1,911,608	1,725,285
Cost	$92,951,318	$32,802,989	$24,547,970
All other materials, cost	$14,432,568	$5,767,863	$5,006,055
PRODUCTS.			
Total value	$170,337,892	$64,960,396	$49,795,368
Fresh meat, value	$75,899,849	$29,255,155	$19,753,089
Beef—			
Pounds	164,018,954	118,627,111	119,597,666
Value	$27,876,643	$13,009,363	$10,047,217
Veal—			
Pounds	20,548,843	11,157,758	12,921,896
Value	$4,768,452	$1,569,471	$1,498,687
Mutton and lamb—			
Pounds	8,583,313	9,245,870	7,738,777
Value	$1,877,852	$1,169,054	$763,364
Pork—			
Pounds	157,378,994	101,775,391	60,320,259
Value	$39,353,273	$12,669,369	$6,950,354
Edible offal and all other fresh meat—			
Pounds	11,674,845	11,432,187	6,728,033
Value	$1,523,629	$837,898	$493,467
Cured meat:			
Beef, pickled and other cured—			
Pounds	1,278,410	1,695,084	4,450,976
Value	$287,209	$245,076	$328,334
Pork, pickled and other cured—			
Pounds	178,055,163	121,188,242	121,988,353
Value	$52,916,363	$16,632,373	$16,202,666
Sausage:			
Pounds	34,395,032	31,047,288	24,240,181
Value	$7,424,495	$3,692,691	$2,337,761
Meat puddings, scrapple, etc.:			
Pounds	3,309,651	3,592,848	(1)
Value	$573,665	$328,865	(1)
Lard:			
Pounds	64,513,888	67,135,305	58,518,712
Value	$18,053,472	$7,147,098	$6,566,768
Tallow, oleo stock, and stearin:			
Pounds	9,482,201	24,845,291	11,088,893
Value	$1,338,112	$1,033,720	$640,001
Grease and soap stock:			
Pounds	5,959,317	4,821,543	(1)
Value	$722,089	$244,193	(1)
Casings:			
Pounds	1,364,408	855,544	(1)
Value	$336,971	$90,136	(1)
Fertilizers and fertilizer materials:			
Tons (2,000 lbs.)	10,654	6,602	9,103
Value	$509,736	$170,422	$166,354
Hides and pelts:			
Cattle—			
Number	410,080	269,719	
Pounds	21,707,926	16,146,170	
Value	$6,643,486	$2,391,107	410,573
Calf—			16,900,033
Number	238,194	140,608	$1,970,069
Pounds	3,031,426	1,680,454	
Value	$1,552,668	$290,575	
Sheep—			
Number	256,740	300,259	232,775
Value	$573,312	$292,851	$194,720
All other products, value	$3,506,465	$2,496,134	$1,635,606

[1] Not reported separately.

Electrical machinery, apparatus, and supplies (Table 24).—This table presents statistics of the various kinds of electrical machinery, apparatus, and supplies manufactured in Ohio for 1919. Certain classes of products, among which were incandescent lamps and carbons, were reported to a greater value than some of those for which statistics are presented in the table, but can not be shown separately without the possibility of disclosing the operations of individual establishments.

Ohio ranked second in the industry in the value of products, reporting 15.8 per cent of the electrical products of the United States. It led all states in the production of generating apparatus and batteries, furnishing 45 per cent and 32.2 per cent of the respective totals for the United States.

TABLE 24.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: 1919.

PRODUCT.	Value of products.
Total value [1]	$156,924,143
Generating apparatus and parts	37,741,663
Batteries	29,694,726
Household and industrial apparatus and devices	21,726,024
Motors	19,760,215
Magnetoignition apparatus	11,121,179
Transformers and feeder potential regulators	3,879,236
Switchboards, panel boards, and cut-out cabinets for light and power	772,683
Electric measuring instruments	640,477
Pole line hardware	432,639
Circuit fittings	397,926
Therapeutic apparatus and X-ray tubes	378,624
Telephone apparatus	373,150
Telegraph apparatus	353,194
Rectifying apparatus	312,238
All other electrical machinery, apparatus, and supplies	22,970,139
All other products	4,697,487
Amount received for custom work and repairing	1,672,543

[1] In addition, electrical machinery, apparatus, and supplies to the value of $1,082,661 were reported by establishments engaged primarily in other industries.

Printing and publishing (Tables 25 and 26).—Table 25 gives the number and aggregate circulation per issue for all classes of newspaper and periodical publications reported for the census years 1919, 1914, and 1909.

Of the 165 dailies reported, 128, with a circulation of 1,933,072, were published in the afternoon, an increase of 29.8 per cent over the afternoon circulation in 1914. The circulation of Sunday newspapers during the same period increased 31 per cent.

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

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total	1,030	1,173	1,181	16,101,202	15,707,597	10,753,143
Daily	165	181	184	2,497,955	2,484,548	1,542,855
Sunday	29	28	25	1,087,733	880,219	645,869
Semiweekly	41	47	54	70,071	171,215	122,105
Triweekly	8	6	6	18,640	13,925	9,700
Weekly	543	641	699	3,282,312	3,110,883	2,913,730
Semimonthly	10	18	14	314,298	669,734	516,064
Monthly	179	183	152	6,082,211	5,501,906	2,685,470
Quarterly	44	57	37	2,697,832	2,874,657	2,288,134
All other classes [1]	11	12	10	43,650	50,510	29,215

[1] Includes, in 1919, 11 bimonthly publications; in 1914, 11 bimonthly publications and 1 semiannual; in 1909, 8 bimonthly publications and 2 "All other."

Table 26 shows the number and circulation of foreign-language publications, in comparison with publications in English, by period of issue. The marked decreases shown in both number and circulation are due chiefly to the discontinuance of a number of German papers. The increase shown in the circulation of

foreign-language dailies is due to the reported circulation of a newspaper printed in Rumanian. Of the 84 publications, with a circulation of 573,441, printed in foreign languages in 1919, 46 were German, 8 Polish, 6 Italian, 5 Hungarian, 5 Slovenian, 4 Rumanian, 3 Bohemian, 1 Greek, 1 Lithuanian, 1 Serbo-Croatian, 1 English and German, 1 English and Italian, 1 English and Slovenian, and 1 Yiddish.

TABLE 26.—FOREIGN-LANGUAGE PUBLICATIONS COMPARED WITH ENGLISH, BY PERIOD OF ISSUE: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	Census year.	TOTAL. Number.	TOTAL. Aggregate circulation per issue.	IN ENGLISH. Number.	IN ENGLISH. Aggregate circulation per issue.	IN FOREIGN LANGUAGES. Number.	IN FOREIGN LANGUAGES. Aggregate circulation per issue.
Total	1919	1,030	16,101,202	946	15,527,761	84	573,441
	1914	1,173	15,707,597	1,055	14,879,708	118	827,889
	1909	1,181	10,753,143	1,052	9,919,063	129	834,080
Daily	1919	165	2,497,955	153	2,308,227	12	189,728
	1914	181	2,484,548	169	2,353,583	12	130,965
	1909	184	1,542,855	173	1,453,190	11	89,665
Sunday	1919	29	1,087,733	26	1,031,994	3	55,739
	1914	28	830,219	23	742,519	5	87,700
	1909	25	645,869	18	588,729	7	57,140
Semiweekly and triweekly.	1919	49	94,711	42	76,811	7	17,900
	1914	53	185,140	45	164,144	8	20,996
	1909	60	131,806	52	111,438	8	20,368
Weekly	1919	543	3,282,812	500	3,114,338	43	168,474
	1914	641	3,110,883	579	2,783,531	62	327,352
	1909	699	2,913,730	630	2,543,916	69	369,814
Monthly	1919	179	6,082,211	169	6,042,584	10	39,627
	1914	183	5,501,906	167	5,391,458	16	110,448
	1909	152	2,685,470	133	2,550,482	19	134,988
Quarterly [1]	1919	65	3,055,780	56	2,953,807	9	101,973
	1914	87	3,594,901	72	3,444,473	15	150,428
	1909	61	2,833,413	46	2,671,308	15	162,105

[1] Includes, in 1919, 10 semimonthly and 11 bimonthly publications, 1 of each in a foreign language; in 1914, 18 semimonthly and 11 bimonthly publications and 1 semiannual, of which, 3 semimonthly and 2 bimonthly publications were in foreign languages; in 1909, 14 semimonthly and 8 bimonthly publications and 2 "All other," of which, 5 semimonthlies, 1 bimonthly, and 1 "All other" were in foreign languages.

Flour-mill and gristmill products (Table 27).—This table shows the chief products of the industry in Ohio at the censuses of 1919, 1914, and 1909.

TABLE 27.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$89,396,619	$45,171,200	$48,093,353
Wheat flour:			
Barrels	5,773,328	5,707,781	5,723,536
Value	$63,201,713	$27,852,222	$30,508,109
Rye flour:			
Barrels	22,044	43,674	33,215
Value	$189,374	$220,344	$146,786
Buckwheat flour:			
Pounds	3,853,140	5,848,216	7,436,813
Value	$220,015	$171,359	$180,267
Corn meal and corn flour:			
Barrels	370,810	524,941	865,250
Value	$2,714,357	$1,696,817	$2,528,843
Hominy and grits:			
Pounds	268,000	83,822,260	80,855,375
Value	$9,380	$1,380,905	$1,247,605
Bran and middlings:			
Tons	228,892	255,720	(1)
Value	$10,535,906	$5,886,947	(1)
Feed and offal:			
Tons	192,610	249,551	502,301
Value	$12,063,914	$7,536,048	$12,406,370
All other cereal products, value	$132,727	$88,671	$931,283
All other products, value	$329,233	$337,887	$144,090

[1] Included in "Feed and offal."

Of the total value of products for the industry in the state, wheat flour formed 70.7 per cent in 1919 and 61.6 per cent in 1914. Bran and middlings and feed and offal combined formed 25.3 per cent and 29.7 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 126.9 per cent while the quantity increased only 1.1 per cent during the five-year period.

Boots and shoes (Tables 28 and 29).—Table 28 gives the number of pairs and value of the various kinds of boots and shoes manufactured in the state in 1919, 1914, and 1909. The total number of pairs of boots and shoes reported in 1919 shows a small increase as compared with 1914 and a slight decrease as compared with 1909. Women's shoes constituted 69.2 per cent of the total output for the state and outnumbered by far all other kinds. Ohio ranked fifth in the industry in value of products among the states in 1919 and 1914.

TABLE 28.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

KIND.	1919	1914	1909
Aggregate value	$71,354,850	$32,773,922	$30,529,498
Boots and shoes:			
Total number of pairs	17,571,593	17,161,199	17,693,316
Total value	$70,349,255	$31,572,556	(1)
Men's—			
Number of pairs	898,507	1,419,925	1,702,194
Value	$3,680,495	$3,375,001	(1)
Boys' and youths'—			
Number of pairs	1,804,699	1,734,057	1,372,330
Value	$4,695,926	$2,724,537	(1)
Women's—			
Number of pairs	12,157,284	10,966,825	11,154,083
Value	$56,783,280	$21,978,519	(1)
Misses' and children's—			
Number of pairs	2,711,103	3,039,492	3,464,709
Value	$5,180,554	$3,494,490	(1)
All other footwear:			
Number of pairs	298,555	812,242	1,215,599
Value	$630,245	$1,052,362	(1)
All other products, including amount received for work done for others, value	$375,350	$149,004	(1)

[1] Figures not available.

TABLE 29.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

KIND.	Census year.	NUMBER OF PAIRS, BY METHOD OF MANUFACTURE. Total.	Welted.	McKay.	Turned and wood or metal fastened.
Boots and shoes	1919	17,571,593	5,255,955	[1] 10,871,298	1,444,340
	1914	17,161,199	6,027,083	9,914,687	1,219,429
Men's, boys', and youths'	1919	2,703,206	636,758	[1] 2,066,448	.....
	1914	3,154,882	1,217,226	1,796,438	141,218
Women's	1919	12,157,284	4,530,980	6,181,964	1,444,340
	1914	10,966,825	4,603,637	5,332,200	1,030,988
Misses' and children's	1919	2,711,103	88,217	[1] 2,622,886	.....
	1914	3,039,492	206,220	2,786,049	47,223
All other footwear	1919	298,555	.....	112,419	[2] 186,136
	1914	812,242	.....	470,055	[2] 342,187

[1] Includes "Turned" and "Wood or metal fastened" to avoid disclosure of individual operation.
[2] Includes "Welted."

Table 29 shows that more boots and shoes were produced in Ohio by the McKay method than by any other. The number of pairs of boots and shoes manufactured by this method increased from 57.8 per cent of the total in 1914 to 61.9 per cent in 1919; while the number of those of the welted type decreased from 35.1 per cent in 1914 to 29.9 per cent in 1919.

Machine tools (Table 30).—This table shows in detail the different kinds of machine tools manufactured in Ohio in 1919. At previous censuses these have been classified as "Foundry and machine-shop products," and 1919 is the first year for which the statistics were presented separately. Ohio ranked first in this industry, reporting 24.9 per cent of the production in the United States. Lathes formed the product of chief value within the industry, representing 25.2 per cent of the total value of machine tools produced.

TABLE 30.—MACHINE TOOLS: 1919.

	Number.	Value.
Total value [1]		$62,554,169
Lathes:		
Engines	6,775	12,604,232
Bench, turret, and other	2,763	3,143,263
Milling machines:		
Plain	1,926	2,629,301
Universal	1,155	1,860,215
Vertical, automatic, and other	1,274	1,180,637
Drilling machines:		
Radial	2,416	4,635,136
Multiple spindle, sensitive and upright	1,722	724,624
Screw machines, automatic and hand	3,114	4,450,210
Planers	869	4,154,315
Boring machines:		
Horizontal	343	1,448,449
Vertical	248	2,410,446
Shapers	1,875	1,662,301
Grinding machines:		
Plain	993	925,229
Universal	241	354,843
Cutter and tool	349	237,676
Hammers, all kinds	7,348	807,977
Pipe machines	1,048	585,572
Portable tools, all kinds		2,650,146
Other machine tools		12,014,548
All other products		4,075,049

[1] In addition, machine tools to the value of $3,142,856 were reported by establishments engaged primarily in other industries.

Butter, cheese, and condensed milk (Table 31).—This table gives the quantities and values of the principal products for 1919, 1914, and 1909. Ohio is one of the leading states in this industry, ranking fourth in the production of butter, eighth in cheese, and seventh in condensed and evaporated milk. Butter was the product of chief value at each of the three censuses. In 1919 it formed 61.5 per cent of the total value of products, cheese 2.7 per cent, and condensed and evaporated milk 25.2 per cent.

There was an increase of 48.3 per cent in the quantity of butter, and a decrease of 40.1 per cent in the production of cheese during the five-year period 1914–1919. The remarkable increase, amounting to 136 per cent, in the quantity of condensed and evaporated milk, was due almost entirely to the increase in the output of evaporated milk, which formed 72 per cent of the total production in 1919.

TABLE 31.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	[1] $60,012,831	$19,325,977	29,689,670
Butter:			
Pounds	63,882,101	43,064,562	17,491,251
Value	$36,894,179	$12,520,138	$4,985,273
Packed solid—			
Pounds	30,464,645	23,616,649	11,265,341
Value	$17,275,751	$6,719,266	$3,162,518
Prints or rolls—			
Pounds	33,417,456	19,447,913	6,225,910
Value	$19,618,428	$5,800,872	$1,822,755
Cream sold:			
Pounds	5,862,590	13,012,456	4,735,000
Value	$1,777,711	$1,310,242	$500,528
Cheese:			
Pounds	5,220,545	8,717,996	11,860,601
Value	$1,634,118	$1,051,795	$1,533,517
Full cream—			
Pounds	2,672,289	6,104,862	9,768,970
Value	$962,974	$881,369	$1,305,461
Other kinds—			
Pounds	2,548,256	2,613,134	2,091,631
Value	$671,144	$170,426	$228,056
Condensed milk:			
Pounds	33,386,182	28,119,638	37,655,347
Value	$3,983,694	$1,458,006	$2,409,959
Sweetened—			
Pounds	18,729,348	3,436,823	4,232,160
Value	$2,956,539	$199,962	$256,529
Unsweetened—			
Pounds	14,656,834	24,682,815	33,423,187
Value	$1,027,155	$1,258,044	$2,153,430
Evaporated milk:			
Pounds	85,797,526	22,390,210	
Value	$11,153,618	$1,608,025	
All other butter, cheese, and condensed-milk factory products, value	$2,995,452	$972,497	$161,537
All other products, value	$1,574,059	$404,674	$98,856

[1] In addition, in 1919, butter valued at $375,270, cheese valued at $875, and condensed and evaporated milk valued at $100,985 were reported as subsidiary products by establishments engaged primarily in the manufacture of other products.

Brick, tile, pottery, and other clay products (Table 32).—This table presents the product statistics for the clay-working industries for 1919, 1914, and 1909. The detailed figures for quantities and values are taken from the report of the United States Geological Survey, and represent sales during the year. Ohio ranks first among the states in the clay-working industries.

TABLE 32.—BRICK, TILE, POTTERY, AND OTHER CLAY PRODUCTS: 1919, 1914, AND 1909.

	1919	1914	1909
Products, total value	$60,847,937	$38,667,374	$30,531,002
The classified industries:			
Brick, tile, terra-cotta, and fire-clay products	32,172,576	23,375,689	[1] 9,357,730
Pottery	28,675,361	15,291,685	[2] 21,173,272
Brick:			
Common or building—			
Thousands	293,757	436,117	429,999
Value	$4,083,877	$2,862,109	$2,429,879
Face—			
Thousands	148,747	188,074	130,684
Value	$2,937,282	$1,944,486	$1,393,787
Fire—			
Thousands	154,922	102,735	103,148
Value	$4,958,219	$1,833,740	$1,730,401
Vitrified—			
Thousands	125,491	293,381	324,530
Value	$3,135,716	$3,682,230	$3,113,128

[1] Brick and tile.
[2] Pottery, terra-cotta, and fire-clay products.

TABLE 32.—BRICK, TILE, POTTERY, AND OTHER CLAY PRODUCTS: 1919, 1914, AND 1909—Continued.

	1919	1914	1909
Draintile:			
Net tons	246,158	(1)	(1)
Value	$2,042,452	$1,589,565	$2,032,528
Sewer pipe:			
Net tons	481,219	(1)	(1)
Value	$6,198,589	$4,691,719	$3,009,798
Tile:			
Building, hollow—			
Net tons	664,744	(1)	(1)
Value	$4,755,610	$2,200,544	$804,637
Ceramic mosaic—			
Square feet	2,258,018		
Value	$565,220		
Faience—			
Square feet	729,717		
Value	$461,048		
Flooring—			
Square feet	2,298,344	(1)	(1)
Value	$570,627	$2,331,079	$1,912,343
Roofing—			
Squares	48,334		
Value	$645,438		
Wall—			
Square feet	2,450,396		
Value	$833,013		
Pottery:			
Red earthenware	$293,249	$300,453	$145,137
Red and brown, white-lined cooking ware	$632,844		
Stoneware and yellow and Rockingham ware	$2,050,864	$1,592,102	$1,806,798
White ware, semiporcelain, and semivitreous porcelain	$18,664,031	$10,227,806	$8,884,189
China, bone china, delft, and belleek ware	$817,195		
Sanitary ware, including bathtubs, laundry tubs, etc	$1,301,024	$619,931	$310,254
Porcelain electrical supplies	$3,717,207	$1,472,359	$1,146,694
All other products	$2,184,432	$3,319,251	$1,811,429

[1] Figures not available.

The large increase in 1919, as compared with 1914, was an increase in values and not in quantity production, the number of brick manufactured in 1919 showing a decided decrease, as compared with 1914.

The average number of wage earners in 1919—23,399—was 14.4 per cent less than the average number in 1914. This decrease, however, was confined to the "brick, tile, terra-cotta, and fire-clay" branch of the industry, the "pottery" branch showing an increase of 2.2 per cent.

Paper and wood pulp (Table 33).—This table shows the quantity and cost of materials used, the quantity and value of products, and detailed information regarding equipment for 1919, 1914, and 1909.

Ohio ranked seventh among the states in 1919 in the value of paper and wood pulp produced. Boards were the principal product of the industry in the state, forming 26.5 per cent of the total value of paper and wood pulp products in 1919. Book paper represented 23.8 per cent and fine paper 22 per cent of all products of this industry at the last census. Building, roofing, and sheathing paper, tissue paper, blotting paper, and other grades, amounting to $4,948,781, and other products, principally paper bags and boxes, to the amount of $4,835,851, have been included in the item "All other products," in order to avoid disclosing the operations of individual establishments.

TABLE 33.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	$35,710,348	$16,109,274	$10,898,285
Pulp wood:			
Cords	26,967	29,352	(1)
Cost	$247,157	$187,090	$443,296
Wood pulp, purchased, total:			
Tons	[2] 151,467	[2] 139,451	80,201
Cost	$13,904,166	$6,392,759	$3,743,972
Ground—			
Tons	10,683	9,383	4,778
Cost	$512,755	$196,447	$110,372
Soda fiber—			
Tons	25,827	33,855	27,326
Cost	$2,244,624	$1,499,053	$1,303,292
Sulphite fiber—			
Tons	99,384	86,559	47,167
Cost	$9,885,543	$4,335,536	$2,292,178
Sulphate fiber—			
Tons	13,729	9,017	[3] 930
Cost	$1,175,094	$340,218	[3] $38,130
Screenings, mechanical and chemical, cost	$86,150	$21,505	(4)
Rags, including cotton and flax waste and sweepings:			
Tons	29,544	37,303	33,744
Cost	$1,979,338	$978,771	$893,509
Paper stock, including high-grade shavings, and old and waste paper:			
Tons	180,863	200,996	93,239
Cost	$4,439,189	$2,307,643	$1,286,182
Manila stock, including jute bagging, rope, waste, thread, etc.:			
Tons	18,802	39,230	25,949
Cost	$1,257,347	$850,851	$856,420
Straw:			
Tons	79,448	97,007	70,322
Cost	$1,051,585	$473,599	$335,951
China clay:			
Tons	17,782	(4)	(4)
Cost	$238,616	(4)	(4)
Bleaching powder:			
Tons	5,342	(4)	(4)
Cost	$213,750	(4)	(4)
Fuel and rent of power, cost	$2,947,471	$1,280,584	$1,049,097
All other materials, cost	$9,431,729	$3,637,077	$2,289,858
PRODUCTS.			
Total value	$55,098,196	$23,284,192	$16,965,260
Book, cover, plate, and coated paper:			
Tons	81,191	89,006	75,607
Value	$13,136,662	$7,712,459	$6,752,103
Fine paper:			
Tons	55,006	24,155	19,570
Value	$12,096,730	$2,597,349	$2,306,016
Wrapping paper:			
Tons	32,922	34,837	42,548
Value	$5,488,802	$1,954,766	$2,389,282
Boards:			
Tons	211,335	171,726	106,016
Value	$14,591,380	$5,537,694	$3,159,290
Straw—			
Tons	48,618	39,496	37,710
Value	$3,347,752	$1,075,535	$853,100
All other—			
Tons	162,717	132,230	68,306
Value	$11,243,628	$4,462,159	$2,306,190
All other products, value	$9,784,632	$5,481,924	$2,358,619
Wood pulp produced (including that used in mills where manufactured), tons	13,490	14,399	25,935
EQUIPMENT.			
Paper machines:			
Total number	109	99	118
Capacity, yearly, tons	557,850	478,244	414,650
Fourdrinier—			
Number	43	44	63
Capacity per 24 hours, tons	774	659	575
Cylinder—			
Number	66	55	55
Capacity per 24 hours, tons	1,114	965	717
Pulp equipment:			
Grinders, number		4	5
Digesters, total number	8	7	11
Soda fiber, number	4	4	3
Sulphite fiber, number	3	3	8
Sulphate fiber, number	1		
Capacity, yearly, tons of pulp, total	10,678	20,032	54,400
Ground, tons		6,532	7,800
Soda, tons	5,528	4,500	3,000
Sulphite, tons	4,150	9,000	43,600
Sulphate, tons	1,000		

[1] Not reported.
[2] Includes 1,844 tons of mechanical and chemical screenings in 1919 and 637 tons in 1914.
[3] Reported as "Other chemical fiber."
[4] Not reported separately.

Paint and varnish (Table 34).—This table presents the statistics of products for the paint and varnish industries, 1919, 1914, and 1909. They represent 94 establishments in 1919, 61 primarily engaged in the manufacture of paints and 33 in the manufacture of varnishes, as compared with 95 (65 paint and 30 varnish) in 1914 and 87 in 1909.

TABLE 34.—PAINT AND VARNISH, 1919, 1914 AND 1909.

PRODUCT.	[1] 1919	[1] 1914	1909
Total value	$50,477,810	$19,326,576	$13,617,189
Paint industry	$36,848,364	$14,824,073	$13,617,189
Varnish industry	$13,629,446	$4,502,503	
Pigments	$1,324,268	$717,352	$949,613
Paints	$31,331,603	$11,401,735	$7,674,867
In paste form, ground in oil—			
White lead—			
Pounds	35,408,775	28,941,498	24,057,529
Value	$4,140,545	$1,905,492	$1,532,797
All other—			
Pounds	18,074,246	13,219,598	12,237,952
Value	$3,254,743	$1,085,100	$807,156
In oil, ready mixed for use—			
Gallons	11,785,606	8,187,973	6,769,267
Value	$23,936,315	$8,411,143	$5,334,914
Varnishes and japans	$11,637,510	$5,255,127	$3,721,889
Oleoresinous varnishes—			
Gallons	4,815,175	3,268,124	3,790,073
Value	$7,038,545	$2,887,022	$2,413,323
Spirit varnishes, not turpentine—			
Gallons	95,890	96,309	77,786
Value	$209,003	$83,236	$106,848
Damar and similar turpentine and benzine varnishes—			
Gallons	1,045,715	150,659	309,080
Value	$1,857,080	$171,309	$259,204
Drying japans and dryers—			
Gallons	842,920	1,227,184	1,715,173
Value	$708,887	$556,181	$672,443
Baking japans and lacquers—			
Gallons	970,759	644,962	
Value	$1,046,705	$340,961	
All other varnishes and japans, value	$777,290	$1,215,818	$270,071
Fillers:			
Liquid—			
Gallons	270,850	281,063	292,867
Value	$321,816	$163,538	$155,869
Dry or in paste—			
Pounds	2,709,141	2,970,795	4,623,364
Value	$243,726	$175,981	$159,570
Putty—			
Pounds	4,066,210	1,875,714	
Value	$194,089	$40,393	
Water paints and kalsomine, dry or in paste—			
Pounds	2,648,260	1,500,616	$955,381
Value	$156,465	$45,569	
All other products, value	$5,268,333	$1,526,881	

[1] In addition, products within the scope of these industries to the value of $1,065,385 in 1919 and $145,005 in 1914 were reported as subsidiary products by establishments engaged primarily in the manufacture of other products.

Chemicals (Table 35).—This table gives the statistics for the chemical industries for 1919, 1914, and 1909. The production shown for 1919 comprises all products reported by 57 establishments primarily engaged in the manufacture of chemicals—including those of coal-tar origin, and sulphuric, nitric, and mixed acids—amounting to $44,181,018 and chemicals of the value of $5,904,572 manufactured by establishments included under other industry classifications. In 1914 there were 33 establishments in the industries constituting the group, and in 1909, 37 establishments. The increase of 300 per cent in the value of all products for the period 1914–1919, as compared with 50 per cent for the 1909–1914 period, can not be accepted as a measure of growth for the industry owing to the abnormal prices prevailing in 1919.

TABLE 35.—CHEMICALS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$50,085,590	$12,490,369	$8,361,985
The classified industries:			
Chemicals	32,719,466	11,388,140	7,742,045
Coal-tar products	9,494,586		
Sulphuric, nitric, and mixed acids	1,966,966		
Subsidiary chemical products from other industries	5,904,572	1,102,229	619,940
Acids	7,547,185	2,435,302	1,664,157
Sodas, sodium, and compounds	15,074,794	4,530,911	2,285,759
Compressed and liquefied gases	3,330,742	591,248	245,541
Glycerin	4,364,434	1,246,795	1,140,639
Other chemicals	17,433,841	2,810,810	2,532,633
All other products	2,334,594	875,303	493,256

Engines, steam, gas, and water (Table 36).—This table shows the number, by groups of indicated horsepower capacity, and the value of engines of the various types manufactured in 1919 and 1914. A notable development in this industry is indicated, not only by the general increase in the number and total rated horsepower capacity of engines reported, but by the obvious trend toward the construction of larger units of power.

TABLE 36.—ENGINES, STEAM, GAS, AND WATER: 1919 AND 1914.

PRODUCT.	NUMBER BY INDICATED HORSEPOWER CAPACITY.						Indicated horsepower capacity.	Value.
	Under 10.	10 but under 50.	50 but under 100.	100 but under 500.	500 but under 1,000.	1,000 and over.		
Total:								
1919	6,499	41,159	693	574	34	118	1,651,014	$44,750,880
1914	27,466	5,231	1,160	329	48	33	468,430	9,471,281
The engine industry:								
1919	3,702	40,576	693	509	34	118	1,533,600	42,850,677
1914	24,980	4,233	580	289	35	21	334,504	6,861,351
Subsidiary products from other industries:								
1919	2,797	583	.....	65	.....	.....	117,414	1,900,203
1914	2,486	998	571	40	13	12	133,926	2,609,930
Steam engines:								
1919	151	716	37	188	34	118	403,188	12,759,736
1914	102	135	31	100	29	15	84,902	1,199,169
Internal-combustion engines:								
1919	5,445	7,045	196	[1] 300	.....	.....	332,604	7,528,724
1914	10,038	4,533	200	111	11	7	202,284	3,224,263
Automobile:								
1919	.....	4,648	.....	.....	.....	.....	92,727	1,155,004
1914	.....	2,016	.....	.....	.....	.....	67,605	209,122
Marine:								
1919	450	40	10	4	.....	.....	5,860	209,219
1914	2,934	580	32	14	.....	.....	26,177	534,747
Stationary:								
1919	2,288	2,357	186	[1] 184	.....	.....	113,461	4,708,979
1914	7,104	1,937	168	97	11	7	108,502	2,480,394
Portable and other:								
1919	2,727	.....	.....	112	.....	.....	120,556	1,395,522
1914	.....	.....	.....	.....	.....	.....	.....	.....
Traction engines (not locomotive):								
1919	663	22,967	.....	.....	.....	.....	748,071	15,351,101
1914	.....	[2] 542	712	7	.....	.....	63,081	2,114,053
Water wheels, motors, and turbines:								
1919	240	10,431	460	86	.....	.....	167,151	713,834
1914	17,326	21	217	111	8	11	118,163	832,029
Parts of engines:								
1919	.....	.....	.....	.....	.....	.....	.....	2,466,025
1914	.....	.....	.....	.....	.....	.....	.....	619,535
Other foundry and machine-shop products:								
1919	.....	.....	.....	.....	.....	.....	.....	2,768,899
1914	.....	.....	.....	.....	.....	.....	.....	793,144
All other products:								
1919	.....	.....	.....	.....	.....	.....	.....	3,162,561
1914	.....	.....	.....	.....	.....	.....	.....	688,188

[1] Includes group "500 but under 1,000." [2] Includes group "Under 10."

Petroleum, refining (Table 37).—This table presents the statistics for the various products of the petroleum-refining industry for 1919, 1914, and 1909. The figures show an increase for the period 1914 to 1919 of 46.5 per cent in quantity and 288 per cent in value of products. The average value of these oils, as a whole, was $7 per barrel in 1919 as compared with $2.65 in 1914, and $2.30 in 1909. Gasoline and the naphthas constituted 46.4 per cent of the quantity of gas and oil produced; the fuel oils, 24.9 per cent; illuminating oils 18.2 per cent; and lubricating oils 10.6 per cent.

TABLE 37.—PETROLEUM, REFINING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	$31,958,077	$9,924,445	$8,144,583
Crude petroleum:			
Barrels (42 gallons)	7,364,934	5,026,251	4,833,675
Cost	$23,525,792	$7,961,948	$4,987,558
Distillates purchased and rerun:			
Barrels	215,299	(1)	(1)
Cost	$1,380,950	(1)	(1)
Casing-head gasoline purchased:			
Barrels	66,055	(1)	(1)
Cost	$621,149	(1)	(1)
Chemicals and filtering material, cost	$386,354	(1)	(1)
Containers and materials therefor, cost	$928,764	$416,286	$662,487
All other materials, cost	$4,614,568	$1,546,211	$2,504,538
PRODUCTS.			
Total value	$43,282,801	$11,169,189	$10,753,738
Naphthas and lighter products:			
Gasoline—			
Gallons	112,624,051	41,076,200	26,991,400
Value	$21,212,560	$3,568,834	$2,224,283
Naphtha, benzine, etc.—			
Gallons	12,918,803	3,307,200	
Value	$2,537,857	$167,483	
Illuminating oils:			
Gallons	49,228,787	50,652,900	60,209,300
Value	$4,793,592	$2,072,015	$2,618,762
Fuel oils:			
Distillates—			
Gallons	17,114,604		
Value	$981,324		
Gas oils—			
Gallons	20,984,326	64,900,800	62,897,500
Value	$1,293,445	$1,844,644	$1,302,720
Residual fuel oils—			
Gallons	29,220,972		
Value	$1,737,366		
Lubricating oils:			
Gallons	28,745,834	21,042,150	27,176,300
Value	$5,503,207	$1,900,185	$2,062,387
Greases:			
Gallons	3,532,166	816,550	903,800
Value	$1,404,675	$185,951	$207,225
Paraffin wax:			
Gallons	5,136,396	2,819,750	2,726,800
Value	$1,385,244	$410,929	$470,760
Other refinery products, value	$1,006,102	$322,272	$1,867,601
All other products, value	$1,427,429	$896,876	
EQUIPMENT (CAPACITY, GALLONS).			
Stills:			
Steam—			
Number	37	23	38
Capacity	1,386,760	921,242	1,116,738
Fire—			
Number	168	151	160
Capacity	5,135,245	4,450,446	3,330,264
Pressure—			
Number	73	(1)	(1)
Capacity	905,664	(1)	(1)
Storage tanks for:			
Crude petroleum—			
Number	47	20	61
Capacity	18,757,000	14,126,000	21,521,000
Refined petroleum—			
Number	561	321	
Capacity	45,393,000	26,905,000	
Fuel oil—			
Number	93	80	614
Capacity	32,446,000	26,771,000	78,612,000
Other—			
Number	569	531	
Capacity	57,538,000	49,754,000	

[1] Figures not available.

The corresponding distribution percentages for 1914 and 1909 indicate the steadily increasing proportion of gasoline and naphthas produced, exceeding that of fuel oil for the first time at the census of 1919.

Glass (Table 38).—This table shows the value of the various classes of glass products, and the kind and quantity of the principal varieties of pressed and blown glass and bottles and jars for 1919, 1914, and 1909. Of the establishments engaged in the manufacturing of glass in Ohio in 1919, 16 produced building glass, 20 pressed and blown glass, and 11 bottles and jars. Pressed and blown glass was the most important product of the glass industry in this state, forming 47.5 per cent of the total value of products in 1919.

Ohio ranks first among the states in the production of electric bulbs, shades, globes, and other gas and electrical goods, and beer, soda, and mineral water bottles; second in the production of tableware, jelly glasses, tumblers, and goblets, lamps, chimneys, blown tumblers, stem ware, and bar goods, and liquor bottles and flasks; and third in the manufacture of window glass and fruit jars.

TABLE 38.—GLASS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$35,240,877	$19,191,342	$14,358,274
Building glass	7,204,826	3,805,669	2,744,513
Pressed and blown glass	16,740,016	6,490,498	6,160,707
Bottles and jars	8,579,661	7,422,402	4,717,658
All other products	2,716,374	1,472,773	736,396
Kind and quantity of pressed and blown glass and bottles and jars.			
Pressed and blown glass:			
Tableware, 100 pieces	676,427	525,573	248,815
Jellies, tumblers, and goblets, dozens	3,997,554	3,050,566	4,133,100
Lamps, dozens	226,302	182,449	60,147
Chimneys, dozens	1,401,609	1,102,386	1,215,815
Lantern globes, dozens	979,107	318,886	213,586
Shades, globes, and other gas and electrical goods (excluding electric bulbs) dozens	6,081,251	625,019	641,896
Blown tumblers, stem ware, and bar goods, dozens	2,820,669	1,739,548	2,255,805
Cut ware, dozens	240,176	15,333	6,000
Bottles and jars:			
Beer, soda, and mineral, dozens	1,116,857	1,220,253	585,924
Liquors and flasks, dozens	257,503	545,541	222,764
Fruit jars, gross	240,707	73,645	21,626
Packers' and preservers', gross	294,542	299,673	138,269

Agricultural implements (Table 39).—This table gives the value of the principal classes of agricultural implements manufactured in the state for 1919, 1914, and 1909.

TABLE 39.—AGRICULTURAL IMPLEMENTS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	$26,556,031	$17,484,615	$14,440,461
Plows and cultivators	6,701,388	4,627,191	3,062,194
Harvesting implements	2,223,127	2,573,726	2,675,727
Seed separators	1,195,874	1,364,209	858,106
Planters and seeders and all other agricultural implements, including parts	12,606,934	6,156,170	7,536,850
All other products	2,679,472	2,379,464	
Amount received for repair work	1,149,236	383,855	307,584

The figures do not indicate any particular growth in this industry during the five-year period, although the total value of products increased 51.9 per cent. Plows and cultivators were the products of chief value,

forming 25.2 per cent of the total value of products in 1919. Ohio ranked fourth among the states in the manufacture of agricultural implements in 1919 and third in 1914.

Leather, tanned, curried, and finished (Table 40).—This table shows the quantity and cost of materials used and the quantity and value of the principal products for 1919, 1914, and 1909.

There was an increase of 29 per cent in the number, and 100.7 per cent in the cost of cattle hides treated in 1919, as compared with 1914. The value of products during the same period more than doubled. Upholstery leather for furniture, automobiles, and carriages was the product of chief value at each census. Sole and upper leather are shown in combination to avoid the possibility of disclosing the operations of individual establishments. Upper leather includes case, bag, and strap, rough, bookbinder's, belting, welting, saddlery, and finished splits.

Although the value has increased, due to the prevalence of higher prices at each succeeding census, the statistics indicate a steadily diminishing output of harness leather.

TABLE 40.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	$18,817,791	$8,506,253	$7,719,604
Cattle hides:			
Number	594,103	460,521	514,226
Cost	$11,096,508	$5,530,059	$5,179,537
All other raw stock, cost	$4,283,842	$1,668,206	$1,157,205
Fuel and rent of power, cost	$193,028	$105,086	$89,269
All other materials, cost	$3,244,413	$1,202,902	$1,293,593
PRODUCTS.			
Total value	$25,008,070	$11,627,916	$10,127,836
Sole and upper leather, value	$9,771,961	$3,789,369	[1] $1,903,510
Upholstery leather (automobile, furniture, and carriage), value	$7,820,184	$3,404,590	$3,734,827
Harness leather:			
Sides	219,455	335,127	363,981
Value	$3,157,361	$2,802,957	$2,540,892
All other leather, value	$3,849,187	$1,135,467	$1,682,630
All other products, value	$284,237	$486,763	$205,277
Work on materials for others, value	$125,140	$8,770	$700

[1] Does not include upper leather made from skins.

Laundries (Table 41).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 41, however, summarizes the statistics for such laundries in the state of Ohio for 1919 and 1914.

TABLE 41.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1914–1919.
	1919	1914	
Number of establishments	277	296	−6.4
Persons engaged	8,316	8,434	−1.4
Proprietors and firm members	273	309	−11.7
Salaried employees	1,003	860	16.6
Wage earners (average number)	7,040	7,265	−3.1
Primary horsepower	12,107	10,909	11.0
Capital	$8,209,509	$5,066,162	62.0
Salaries and wages	6,122,025	3,996,649	53.2
Salaries	1,418,357	839,455	69.0
Wages	4,703,668	3,157,194	49.0
Paid for contract work	64,089	2,555	2,408.4
Rent and taxes	315,093	180,002	75.0
Cost of materials	2,874,537	1,361,546	111.1
Amount received for work done	12,528,344	7,822,491	60.2

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

Dyeing and cleaning (Table 42).—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 42.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments	173
Persons engaged	2,113
Proprietors and firm members	165
Salaried employees	354
Wage earners (average number)	1,594
Primary horsepower	2,714
Capital	$2,630,374
Salaries and wages	2,011,590
Salaries	483,306
Wages	1,528,284
Paid for contract work	10,518
Rent and taxes	180,742
Cost of materials	893,346
Amount received for work done	4,657,055

Custom sawmills and custom gristmills (Tables 43 and 44).—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 at the census of 1914.

Tables 43 and 44, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for work performed, and that for custom gristmills the selling value of the grain milled.

TABLE 43.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1909–1919.
	1919	1909	
Number of establishments	262	262	.....
Persons engaged	478	732	−34.7
Proprietors and firm members	337	340	−0.9
Salaried employees	.....	1	.....
Wage earners (average number)	141	391	−63.9
Primary horsepower	5,898	5,398	9.3
Capital	$325,159	$336,846	−3.5
Salaries	.....	150	.....
Wages	107,626	107,849	−0.2
Rent and taxes	3,292	(2)	.....
Cost of materials	31,668	3,980	695.7
Amount received for work done	290,022	286,189	1.3

[1] A minus sign (−) denotes decrease; percentages are omitted where base is less than 100.
[2] Figures not available.

TABLE 44.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase,[1] 1909–1919.
	1919	1909	
Number of establishments	171	152	12.5
Persons engaged	350	301	16.3
Proprietors and firm members	190	199	−4.5
Salaried employees	47	7	.....
Wage earners (average number)	113	95	.....
Primary horsepower	5,737	5,125	11.9
Capital	$1,601,188	$503,088	217.7
Salaries and wages	153,065	32,860	365.8
Salaries	33,887	2,842	1,092.4
Wages	119,178	30,018	297.0
Rent and taxes	18,579	(2)	.....
Cost of materials [3]	2,464,123	981,496	151.1
Value of products [3]	2,989,096	1,189,853	151.2

[1] A minus sign (−) denotes decrease; percentages are omitted where base is less than 100.
[2] Figures not available.
[3] Includes estimate of all grain ground.

GENERAL TABLES.

Table 45 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 Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, and Youngstown, 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 46 presents, for 1919, for the state as a whole and for Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, and Youngstown, 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 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.							
All industries	1919	16,125	730,733	2,897,497	$944,652	$2,911,948	$5,100,309
	1914	15,058	510,435	1,993,080	317,924	1,020,782	1,782,808
	1909	15,138	446,934	1,583,155	245,450	824,202	1,437,936
Agricultural implements	1919	46	4,931	10,470	5,675	12,967	26,556
	1914	59	5,464	11,677	3,826	7,810	17,485
	1909	55	5,997	9,867	3,155	6,319	14,440
Aluminum manufactures.	1919	20	1,840	4,721	2,747	6,673	11,132
	1914	8	216	592	122	245	515
Artificial stone products	1919	339	721	1,932	830	1,405	2,993
	1914	403	954	2,949	535	763	1,946
	1909	299	802	1,325	404	499	1,378
Automobiles, including bodies and parts.	1919	281	45,882	79,039	63,410	250,981	379,436
	1914	102	18,752	30,249	13,411	55,330	85,711
	1909	75	12,130	14,433	7,746	18,522	38,839
Awnings, tents, and sails	1919	41	851	1,732	754	3,736	6,937
	1914	38	615	348	299	1,270	2,131
	1909	30	392	260	163	853	1,387
Bags, paper, exclusive of those made in paper mills.	1919	11	694	785	654	9,139	12,610
	1914	9	646	853	305	1,831	2,893
	1909	8	557	508	240	1,638	2,393
Belting, leather	1919	10	102	166	107	1,138	1,550
	1914	10	78	216	56	543	730
	1909	8	107	405	80	795	1,080
Blacking and cleansing and polishing preparations.	1919	67	171	258	161	1,093	2,469
	1914	54	104	237	53	339	798
	1909	49	103	297	50	297	672
Boots and shoes, including cut stock.[1]	1919	67	14,360	9,463	12,743	41,913	72,970
	1914	73	14,674	9,945	7,132	19,883	33,642
	1909	72	16,026	8,925	6,646	18,872	31,551
Boxes, paper and other, not elsewhere specified.	1919	58	2,952	2,893	2,035	4,805	10,030
	1914	49	2,456	1,941	961	2,087	4,060
	1909	46	2,530	1,825	830	1,931	3,635
Brass, bronze, and copper products.	1919	92	4,264	10,915	5,894	16,178	27,802
	1914	84	2,277	4,393	1,557	4,190	7,843
	1909	82	2,232	4,214	1,372	3,533	6,672
Bread and other bakery products.	1919	1,621	9,091	12,582	9,906	49,956	78,819
	1914	1,634	7,665	8,978	4,783	17,295	30,561
	1909	1,467	5,972	5,398	3,371	13,666	23,007
Brick, tile, pottery, and other clay products.[2]	1919	436	23,399	73,894	24,490	18,973	60,848
	1914	549	27,334	76,432	16,487	12,176	38,667
	1909	703	23,985	64,520	12,155	8,665	30,531
Brooms, from broom corn.	1919	79	341	352	313	935	1,706
	1914	77	345	377	155	454	840
	1909	82	393	328	172	692	1,079
Brushes	1919	19	816	1,124	954	1,676	3,904
	1914	16	677	848	298	732	1,544
	1909	22	425	675	158	625	1,219
Butter, cheese, and condensed milk.	1919	267	2,132	10,401	$2,290	$50,415	$60,013
	1914	286	1,480	6,677	1,049	15,968	19,326
	1909	325	1,067	3,386	557	7,685	9,600
Canning and preserving[3]	1919	124	2,951	7,105	2,065	11,515	17,290
	1914	135	2,507	7,079	946	5,897	8,951
	1909	107	2,009	4,244	532	3,102	4,660
Carriages and wagons and materials.	1919	152	2,213	5,361	2,255	5,654	10,946
	1914	341	5,997	13,381	3,839	8,561	16,192
	1909	407	8,815	14,771	4,647	11,414	21,949
Cars and general shop construction and repairs by electric-railroad companies.	1919	60	1,903	2,545	2,270	2,116	4,725
	1914	48	1,879	3,687	1,228	1,077	2,386
	1909	49	1,318	3,635	722	801	1,691
Cars and general shop construction and repairs by steam-railroad companies.	1919	117	35,245	50,650	50,694	39,590	96,484
	1914	88	21,039	31,380	9,471	16,054	33,286
	1909	71	20,728	19,422	12,726	14,266	28,690
Cars, steam-railroad, not including operations of railroad companies.	1919	8	2,177	12,685	3,336	21,315	28,146
	1914	5	2,885	6,420	2,434	8,558	11,796
	1909	6	2,282	4,410	1,304	4,195	6,451
Cement	1919	6	655	13,514	975	1,514	3,339
	1914	7	849	6,975	521	890	2,112
	1909	9	887	12,685	544	638	1,465
Chemicals	1919	37	3,670	35,049	5,474	15,296	32,719
	1914	29	2,017	18,751	1,460	6,726	11,388
	1909	33	1,132	11,715	749	4,748	7,742
Clothing, men's, including shirts.	1919	278	11,839	3,038	10,079	33,830	65,559
	1914	257	10,758	2,948	4,903	13,756	27,622
	1909	342	9,950	1,794	4,050	12,920	24,869
Clothing, women's	1919	175	8,258	2,008	8,642	26,077	48,704
	1914	170	9,775	1,719	5,137	12,090	22,882
	1909	153	8,843	1,505	4,272	10,291	19,493
Coffee and spice, roasting and grinding.	1919	43	1,088	3,105	934	22,877	29,271
	1914	35	822	2,062	385	10,184	13,312
	1909	39	762	2,186	352	8,277	11,224
Coffins, burial cases, and undertakers' goods.	1919	20	1,148	1,983	1,182	2,840	6,475
	1914	19	1,252	2,268	702	1,294	2,966
	1909	24	1,245	2,289	525	1,324	3,061
Coke, not including gas-house coke.	1919	13	3,407	43,119	6,559	33,172	46,514
	1914	5	489	2,325	352	1,607	2,157
	1909	4	246	1,250	120	640	851
Confectionery and ice cream.[4]	1919	380	5,451	14,385	4,571	21,822	39,185
	1914	292	3,965	8,332	1,784	8,363	14,342
Cooperage and wooden goods, not elsewhere specified.	1919	74	1,032	3,060	1,054	4,081	6,186
	1914	95	1,516	4,037	818	2,547	3,946
	1909	113	1,663	3,453	803	2,216	3,516

[1] Includes "boot and shoe findings" in 1914 and 1909.
[2] Excludes "sand-lime brick" in 1919 and 1914.
[3] Includes "canning and preserving, fruits and vegetables," and "pickles, preserves and sauces" for all years; but excludes "canning and preserving, fish," for 1919 and 1914, to avoid disclosure of individual operations.
[4] Includes "chewing gum" in 1914.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.							
Copper, tin, and sheet-iron products.[1]	1919	325	9,092	11,246	$9,338	$26,550	$48,256
	1914	288	7,448	8,483	4,500	14,450	25,059
	1909	221	6,598	6,352	3,163	11,622	19,086
Cordials and flavoring sirups.	1919	8	106	89	100	1,403	2,090
	1914	8	110	96	46	536	890
Cutlery and tools, not elsewhere specified.	1919	168	8,624	16,236	11,430	11,696	36,782
	1914	81	3,199	8,079	1,898	1,961	6,612
	1909	70	2,820	6,567	1,518	1,650	5,036
Dairymen's, poultrymen's, and apiarists' supplies.	1919	14	445	696	430	2,056	3,471
	1914	18	442	1,002	233	722	1,277
	1909	18	479	916	262	527	1,149
Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	6	339	3,551	384	744	1,514
	1914	5	382	4,100	191	444	706
Electrical machinery, apparatus, and supplies.	1919	189	26,672	42,753	30,052	72,207	156,924
	1914	119	12,695	17,771	7,409	17,482	36,121
	1909	115	8,073	11,959	3,847	7,226	18,777
Explosives	1919	12	304	4,086	417	1,474	2,790
	1914	11	311	5,646	188	972	1,439
	1909	11	358	2,692	204	1,104	1,719
Fertilizers	1919	23	1,197	7,179	1,501	8,071	14,042
	1914	24	1,005	4,739	590	4,627	7,246
	1909	27	841	3,059	368	2,535	4,435
Flags, banners, regalia, society badges, and emblems.	1919	21	1,017	552	813	1,937	4,420
	1914	17	1,074	487	531	1,203	2,605
	1909	13	1,262	568	523	1,509	3,026
Flavoring extracts	1919	44	325	419	347	4,800	6,596
	1914	34	109	183	47	417	908
Flour-mill and gristmill products.	1919	577	2,122	47,830	2,439	77,102	89,397
	1914	649	2,363	53,524	1,506	38,057	45,171
	1909	673	2,585	52,250	1,415	41,353	48,093
Food preparations, not elsewhere specified.	1919	98	1,857	10,256	2,107	37,414	46,340
	1914	76	1,523	5,709	827	20,035	27,346
	1909	61	1,020	3,254	455	8,271	10,837
Foundry and machine-shop products.[2]	1919	2,001	114,299	266,208	148,032	246,275	572,079
	1914	1,379	73,103	159,172	48,318	77,503	178,855
	1909	1,218	64,817	112,538	38,015	64,560	145,837
Foundry supplies	1919	28	213	2,008	234	1,963	3,259
	1914	15	120	1,016	57	241	549
Fur goods	1919	36	207	236	253	579	1,201
	1914	25	136	41	100	149	423
	1909	18	167	12	74	206	411
Furnishing goods, men's.[3]	1919	19	553	212	390	2,171	3,599
	1914	51	2,667	867	723	2,700	4,236
	1909	63	2,508	917	668	3,054	4,623
Furniture and refrigerators.	1919	167	8,481	17,287	8,662	14,899	35,823
	1914	213	7,831	16,817	4,469	7,429	16,687
	1909	228	8,232	15,951	4,142	7,242	16,259
Gas and electric fixtures and lamps and reflectors.	1919	49	1,934	4,013	2,266	5,912	10,552
	1914	52	1,832	2,868	1,021	2,600	4,899
	1909	56	1,437	2,356	748	1,777	3,563
Glass	1919	44	10,935	37,831	12,112	12,652	35,241
	1914	39	10,997	34,871	7,053	7,046	19,191
	1909	45	10,159	16,198	5,977	4,688	14,358
Glass, cutting, staining, and ornamenting.	1919	37	532	405	472	1,400	2,566
	1914	40	481	360	295	428	979
Grease and tallow, not including lubricating greases.	1919	54	711	4,424	860	3,793	5,639
	1914	34	400	2,010	270	671	1,216
	1909	23	300	1,264	171	591	1,017
Grindstones	1919	17	529	2,950	477	200	1,090
	1914	10	546	1,866	255	61	488
	1909	9	1,277	5,228	597	385	1,498
Hats and caps, other than felt, straw, and wool.	1919	31	492	92	471	1,667	2,916
	1914	28	431	58	224	574	1,040
	1909	25	406	83	174	422	804
House-furnishing goods, not elsewhere specified.	1919	29	340	793	$245	$1,427	$2,165
	1914	26	320	895	162	996	1,430
	1909	22	364	1,069	143	924	1,560
Ice, manufactured	1919	141	1,952	34,030	2,618	2,808	10,208
	1914	132	1,277	27,078	904	876	3,134
	1909	97	892	19,058	559	564	2,270
Ink, printing	1919	8	397	2,184	515	3,574	5,515
	1914	7	254	1,913	196	1,354	2,764
	1909	8	183	1,437	131	809	1,907
Instruments, professional and scientific.	1919	20	601	415	534	338	1,424
	1914	28	457	436	254	247	868
Iron and steel, blast furnaces.	1919	42	9,793	359,224	20,224	137,686	179,233
	1914	33	5,786	232,179	5,171	60,739	72,909
	1909	40	7,295	215,739	5,090	68,425	83,699
Iron and steel, steel works and rolling mills.	1919	86	73,025	865,036	137,281	381,060	626,370
	1914	70	46,397	642,958	38,004	139,676	205,023
	1909	75	38,586	515,813	28,614	139,243	197,780
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919	23	4,778	11,053	6,020	10,349	23,451
	1914	15	2,365	6,167	1,323	2,602	4,651
	1909	17	2,797	4,782	1,336	3,421	6,257
Iron and steel, forgings, not made in steel works or rolling mills.	1919	38	5,931	21,030	7,623	18,686	39,563
	1914	29	2,308	7,440	1,570	3,937	6,752
	1909	30	2,002	4,912	1,117	2,221	4,044
Iron and steel, wrought pipe.	1919	8	4,434	10,289	7,210	23,730	37,068
	1914	5	2,285	3,193	1,535	6,152	9,368
	1909	5	1,081	3,770	640	2,507	3,418
Jewelry	1919	52	658	297	619	1,769	3,350
	1914	57	477	348	337	403	1,265
	1909	35	356	116	252	619	1,255
Knit goods	1919	34	4,407	2,688	3,033	11,079	18,779
	1914	38	3,411	2,740	1,502	5,033	8,654
	1909	30	3,149	1,613	1,072	3,851	6,433
Labels and tags	1919	9	228	244	216	550	1,156
	1914	7	92	63	44	122	250
Leather goods[4]	1919	141	1,241	946	1,067	4,451	7,771
	1914	187	1,743	1,437	966	3,473	5,728
	1909	86	1,890	1,399	879	2,859	4,939
Leather, tanned, curried, and finished.	1919	24	1,565	5,063	2,172	18,818	25,008
	1914	28	1,605	4,450	1,054	8,506	11,628
	1909	36	1,884	4,244	1,083	7,720	10,128
Lime	1919	30	1,191	9,175	1,262	1,701	4,021
	1914	38	1,416	7,374	777	706	2,334
	1909	39	1,273	3,872	553	598	1,620
Liquors, malt	1919	73	3,327	35,924	4,453	7,096	25,161
	1914	101	5,340	38,048	4,416	9,190	31,990
	1909	105	4,356	31,690	3,267	6,563	25,332
Looking-glass and picture frames.	1919	18	510	663	462	852	2,050
	1914	14	410	835	258	331	913
Lubricating greases	1919	8	70	232	82	915	2,030
	1914	8	73	134	46	356	703
Lumber and timber products.[5]	1919	1,005	9,685	56,296	10,225	31,250	54,144
	1914	1,188	11,921	61,162	7,104	18,017	31,853
	1909	1,390	13,456	69,255	6,701	19,972	34,597
Marble and stone work, except slate.	1919	191	1,504	8,179	1,912	2,518	7,202
	1914	213	2,523	10,353	1,636	2,049	5,264
	1909	198	2,012	7,070	1,161	1,450	3,847
Mattresses and spring beds, not elsewhere specified.	1919	40	553	1,054	565	2,595	4,199
	1914	43	934	2,228	500	1,998	3,427
	1909	38	961	2,069	435	1,682	3,307
Millinery and lace goods, not elsewhere specified.	1919	41	1,033	464	792	1,893	3,632
	1914	30	911	409	433	1,005	1,918
	1909	31	1,357	603	478	1,459	2,744
Mineral and soda waters	1919	217	867	2,199	989	3,255	6,769
	1914	202	575	1,059	342	860	2,004
	1909	174	457	1,050	237	452	1,395

[1] Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."

[2] Includes "automobile repairing"; "bells"; "engines, steam, gas, and water"; "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"; "pumps, steam and other power"; "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."

[3] Includes "suspenders, garters, and elastic woven goods," but excludes "collars and cuffs," to avoid disclosure of individual operations.

[4] Includes "saddlery and harness" and "trunks and valises," but excludes "pocketbooks," to avoid disclosure of individual operations.

[5] 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."

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.							
Minerals and earths, ground or otherwise treated.	1919	44	1,960	24,006	$2,348	$2,219	$6,861
	1914	19	433	3,967	227	352	780
	1909	4	64	1,340	34	223	331
Mirrors, framed and unframed, not elsewhere specified.	1919	10	243	312	148	712	1,099
	1914	11	115	246	76	163	361
	1909	8	94	198	56	182	291
Models and patterns, not including paper patterns.	1919	138	1,192	6,731	1,915	1,704	5,460
	1914	98	519	1,036	393	183	896
	1909	74	441	673	294	159	670
Motorcycles, bicycles, and parts.	1919	9	2,480	4,289	3,339	5,130	10,874
	1914	9	752	1,951	518	1,634	2,031
	1909	6	942	1,895	686	1,066	2,308
Musical instruments, pianos and organs, and materials.	1919	22	1,820	2,747	1,840	3,154	6,797
	1914	27	1,745	2,201	1,022	1,673	3,545
	1909	30	1,841	2,254	1,092	1,922	3,926
Oil, linseed	1919	3	270	1,516	275	7,761	9,369
	1914	3	150	1,603	116	3,642	3,958
	1909	4	213	1,347	83	3,081	3,627
Oil, not elsewhere specified.	1919	21	302	597	366	6,546	8,986
	1914	20	138	495	105	1,888	2,676
	1909	21	157	330	102	1,252	2,037
Optical goods	1919	31	365	176	371	806	1,885
	1914	20	175	102	103	216	617
	1909	17	67	43	42	109	274
Paint and varnish	1919	94	2,929	10,450	3,186	32,307	50,478
	1914	95	2,107	8,721	1,295	11,339	19,327
	1909	87	1,535	5,572	904	8,570	13,617
Paper and wood pulp	1919	49	6,899	64,420	8,094	35,710	55,098
	1914	48	5,430	50,013	3,378	16,109	23,284
	1909	47	4,673	51,402	2,419	10,898	16,965
Paper goods, not elsewhere specified.[1]	1919	29	2,776	4,919	2,507	11,888	21,261
	1914	29	2,269	3,702	1,179	4,197	8,148
	1909	28	2,040	1,909	882	3,434	6,307
Patent medicines and compounds and druggists' preparations.[2]	1919	267	1,695	1,670	1,297	7,415	18,922
	1914	252	1,032	1,949	479	3,018	7,734
	1909	261	905	1,568	385	1,888	5,859
Paving materials	1919	77	966	23,303	896	1,041	2,952
	1914	66	1,957	23,885	1,169	723	3,507
	1909	5	56	374	33	68	210
Petroleum, refining	1919	11	2,431	7,383	3,246	31,958	43,283
	1914	7	1,519	4,920	1,025	9,924	11,169
	1909	10	1,659	4,324	1,028	8,145	10,754
Photo-engraving	1919	30	417	280	647	277	1,813
	1914	26	411	366	396	170	974
	1909	20	277	215	242	109	576
Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	1919	13	105	105	112	1,681	1,917
	1914	5	46	45	26	440	498
Printing and publishing.[3]	1919	1,780	19,174	27,268	21,665	38,317	112,029
	1914	1,783	18,070	24,308	12,800	17,070	55,609
	1909	1,655	15,756	18,417	9,355	11,904	41,657
Pumps, not including power pumps.	1919	20	1,265	2,127	1,401	2,767	7,393
	1914	17	1,014	1,403	639	1,404	3,277
	1909	20	897	1,322	517	1,271	2,747
Roofing materials	1919	20	1,138	7,249	1,432	7,909	12,785
	1914	18	715	2,076	429	2,319	3,906
	1909	11	428	3,229	251	3,147	3,900
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	96	63,637	170,402	90,981	299,363	551,118
	1914	54	21,705	58,672	14,578	58,737	109,659
	1909	37	10,382	25,885	5,660	32,442	53,911
Safes and vaults	1919	18	1,821	2,704	1,907	3,440	9,478
	1914	10	1,760	5,603	1,153	1,483	4,337
	1909	10	2,014	3,177	1,321	2,162	5,488
Salt	1919	5	535	8,259	$675	$1,380	$2,668
	1914	8	813	4,037	441	1,204	2,197
	1909	8	648	4,034	361	1,090	1,807
Screws, machine	1919	19	4,226	10,504	5,043	5,309	16,599
	1914	7	1,464	2,886	942	1,368	3,275
	1909	6	324	915	204	178	598
Shipbuilding, including boat building.	1919	28	11,412	14,219	19,668	23,902	57,483
	1914	29	2,879	9,661	1,939	1,909	4,717
	1909	39	3,200	8,125	1,705	2,462	5,676
Show cases	1919	13	273	804	278	557	1,177
	1914	11	302	711	178	280	619
	1909	14	349	569	173	307	668
Signs and advertising novelties.	1919	70	1,907	2,161	1,605	3,167	7,904
	1914	50	1,372	1,800	734	1,744	3,551
	1909	28	1,096	1,125	505	941	2,598
Slaughtering and meat packing.[4]	1919	171	5,605	21,205	7,116	154,796	175,692
	1914	169	3,619	13,037	1,488	59,681	66,674
	1909	158	3,086	9,873	1,857	44,347	50,804
Smelting and refining, not from the ore.	1919	7	88	130	109	1,682	2,288
	1914	8	89	697	86	311	578
	1909	6	57	280	41	174	379
Sporting and athletic goods.	1919	11	762	590	662	1,198	2,854
	1914	9	531	411	254	432	936
Stationery goods, not elsewhere specified.	1919	12	766	754	769	2,102	4,646
	1914	15	708	1,118	394	906	2,174
	1909	14	982	2,130	383	996	2,434
Stereotyping and electrotyping.	1919	17	488	1,350	544	822	1,976
	1914	16	306	952	238	223	747
	1909	14	207	323	143	171	476
Stoves and hot-air furnaces, including gas and oil stoves.	1919	101	10,398	13,065	12,951	21,628	48,587
	1914	105	8,575	10,648	5,751	8,415	19,982
	1909	102	7,274	9,478	4,217	6,300	15,358
Sugar, beet	1919	5	630	7,180	1,127	5,108	7,249
	1914	3	282	3,620	209	877	2,051
Surgical appliances and artificial limbs.	1919	34	291	142	228	505	1,139
	1914	32	162	59	93	150	528
	1909	23	112	58	50	82	284
Tobacco, cigars and cigarettes.[5]	1919	676	10,995	696	7,182	13,116	28,854
	1914	937	12,025	681	4,799	7,129	17,239
	1909	1,146	12,631	1,401	4,505	12,075	28,907
Toys and games	1919	59	1,525	2,246	1,225	1,918	4,716
	1914	36	1,103	941	520	799	1,909
	1909	19	387	253	175	379	768
Umbrellas and canes	1919	10	208	53	133	918	1,345
	1914	13	267	184	101	480	836
	1909	15	287	82	105	607	1,005
Wall plaster and composition flooring.	1919	16	689	3,776	908	2,257	4,431
	1914	22	626	3,617	370	770	1,714
	1909	23	259	1,823	106	434	935
Washing machines and clothes wringers.	1919	15	477	767	511	2,033	2,946
	1914	11	171	416	91	348	713
Wirework, including wire rope and cable, not elsewhere specified.	1919	47	1,822	3,631	2,110	4,335	8,710
	1914	43	810	1,281	456	2,167	3,435
	1909	60	1,455	2,511	823	1,806	3,620
Wood preserving	1919	6	444	1,330	504	2,313	3,498
	1914	5	163	446	119	585	937
Wood, turned and carved.	1919	47	892	4,610	874	1,931	3,722
	1914	61	985	4,250	520	1,286	2,284
	1909	83	1,208	4,811	533	1,063	2,460
All other industries	1919	787	49,746	110,100	55,098	239,579	308,894
	1914	759	38,949	82,515	22,801	84,678	157,606
	1909	986	38,583	70,108	19,662	75,273	143,510

[1] Includes "envelopes."
[2] Includes "perfumery and cosmetics."
[3] Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
[4] Includes "sausage."
[5] Includes "tobacco, chewing and smoking, and snuff" in 1909.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.							
AKRON	1919	304	65,054	174,812	$94,779	$314,372	$558,962
All industries.	1914	305	24,680	65,942	17,310	66,062	122,292
	1909	246	15,831	36,263	8,936	43,071	73,158
Artificial stone products	1919	16	49	96	61	73	172
	1914	15	19	37	13	16	44
	1909	10	30	16	15	15	41
Bread and other bakery products.	1919	50	434	483	529	2,731	4,212
	1914	41	183	280	126	443	719
	1909	25	90	105	58	255	417
Brick and tile, pottery, and other clay products.	1919	13	872	3,367	982	805	2,402
	1914	15	1,048	2,986	612	515	1,488
	1909	18	1,172	2,902	600	443	1,491
Copper, tin, and sheet-iron work.	1919	14	145	68	189	394	780
	1914	5	53	27	43	60	132
Foundry and machine-shop products.[1]	1919	44	3,269	11,457	4,671	5,909	10,147
	1914	34	1,552	4,352	1,133	1,699	3,947
	1909	26	969	2,015	650	1,062	2,248
Liquors, malt	1919	3	185	2,662	264	391	1,776
	1914	3	184	1,732	136	308	1,352
	1909	3	81	1,522	57	170	645
Lumber, planing-mill products, not including planing mills connected with sawmills.[2]	1919	8	253	991	407	1,728	2,684
	1914	13	367	1,280	245	883	1,326
	1909	10	319	989	191	437	792
Printing and publishing.[3]	1919	33	807	1,370	969	2,415	4,990
	1914	37	800	1,027	534	685	1,938
	1909	27	734	934	452	597	2,353
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	22	53,806	134,609	78,577	257,333	462,093
	1914	18	17,408	43,886	12,296	49,063	92,547
	1909	14	9,015	20,225	5,065	29,630	49,329
Stoves and hot-air furnaces.	1919	3	400	1,105	610	625	1,814
	1914	4	362	900	264	228	888
	1909	5	334	610	228	245	754
All other industries	1919	98	4,834	18,604	7,520	41,968	61,892
	1914	120	2,644	9,455	1,908	12,162	17,911
	1909	108	3,087	6,945	1,020	10,217	15,088
CANTON	1919	287	20,336	52,933	29,122	65,078	124,293
All industries.	1914	276	12,255	43,071	8,550	21,808	43,713
	1909	204	9,064	27,016	5,719	14,644	28,583
Agricultural implements.	1919	4	301	449	371	572	1,455
	1914	4	271	326	194	543	1,105
	1909	5	283	442	127	401	819
Bread and other bakery products.	1919	33	165	281	201	1,042	1,561
	1914	25	131	116	66	203	421
	1909	19	59	38	34	147	253
Confectionery and ice cream.	1919	13	120	289	96	371	711
	1914	12	57	114	35	65	180
Foundry and machine-shop products.[4]	1919	61	2,683	6,118	3,122	7,211	15,442
	1914	47	2,153	3,420	1,400	2,634	8,042
	1909	32	1,748	3,409	1,005	2,267	4,891
Iron and steel, steel works and rolling mills.	1919	6	10,128	30,846	16,861	35,367	63,374
	1914	6	3,799	28,428	3,245	10,209	16,887
Lumber and timber products.	1919	12	169	531	231	1,845	2,644
	1914	10	46	272	34	52	128
	1909	3	46	180	29	95	135
Printing and publishing.	1919	19	199	276	282	331	1,143
	1914	21	251	275	193	305	775
	1909	17	161	185	88	78	293
Signs and advertising novelties.	1919	7	85	3	33	26	92
	1914	7	42	5	24	18	71
Tobacco, cigars and cigarettes.	1919	9	14	1	9	13	29
	1914	16	40	.....	16	27	65
	1909	19	70	.....	27	42	106
All other industries	1919	123	6,472	14,139	7,916	18,300	37,842
	1914	128	5,465	10,115	3,343	7,752	16,039
	1909	109	7,597	22,762	4,409	11,614	22,086
CINCINNATI	1919	2,239	69,680	121,526	$68,650	$296,280	$500,041
All industries.	1914	2,135	59,861	106,689	33,159	114,107	210,860
	1909	2,183	60,182	88,522	31,097	101,407	192,516
Boots and shoes, including cut stock and findings.	1919	32	6,777	3,948	6,314	17,928	32,694
	1914	34	7,295	4,195	3,716	8,322	15,329
	1909	32	7,989	4,631	3,518	8,584	14,999
Boxes, cigar	1919	5	127	152	80	154	344
	1914	5	139	208	92	106	226
	1909	8	222	405	82	177	347
Boxes, paper and other, not elsewhere specified.	1919	19	808	761	526	1,243	2,645
	1914	17	753	570	263	487	1,016
	1909	15	669	218	185	292	679
Boxes, wooden packing, except cigar boxes.	1919	10	360	1,163	330	1,007	1,791
	1914	8	244	973	133	375	647
Brass, bronze, and copper products.	1919	13	816	1,039	856	1,477	3,642
	1914	12	556	708	346	506	1,187
	1909	14	563	424	329	385	996
Bread and other bakery products.	1919	182	1,745	1,426	1,579	8,919	14,140
	1914	177	1,669	1,524	925	3,690	6,386
	1909	187	1,340	909	723	3,034	5,103
Carriages and wagons and materials.	1919	28	458	921	439	1,560	2,527
	1914	75	1,761	2,788	1,203	3,126	5,565
	1909	74	2,250	2,523	1,295	3,702	6,825
Cars and general shop construction and repairs by steam-railroad companies.	1919	10	1,523	1,022	2,448	1,203	4,027
	1914	6	747	1,023	564	341	971
	1909	3	314	590	203	111	328
Chemicals	1919	9	174	1,292	167	553	1,518
	1914	11	81	493	51	362	618
	1909	11	122	508	76	474	899
Cleansing and polishing preparations.	1919	12	29	46	24	238	478
	1914	7	20	36	8	73	205
Clothing, men's, including shirts.	1919	117	6,260	1,666	5,104	19,272	36,503
	1914	115	5,477	1,628	2,668	7,421	15,105
	1909	183	5,718	559	2,512	8,680	16,975
Clothing, women's	1919	34	908	160	960	2,968	5,135
	1914	26	1,137	167	616	1,370	2,567
	1909	26	1,325	176	619	1,514	2,913
Coffee and spice, roasting and grinding.	1919	12	351	954	280	4,927	6,612
	1914	7	227	657	107	1,782	2,286
	1909	8	221	691	91	1,595	2,110
Copper, tin, and sheet-iron products.[5]	1919	39	1,497	1,855	1,382	6,236	9,633
	1914	48	1,139	1,495	712	3,548	5,570
	1909	37	833	1,154	413	1,633	2,775
Electrical machinery, apparatus, and supplies.	1919	24	542	922	573	1,054	2,613
	1914	16	319	329	191	469	902
	1909	13	313	397	200	333	836
Flavoring extracts	1919	14	135	224	137	1,901	2,644
	1914	10	43	57	22	190	439
Flour-mill and gristmill products.	1919	6	38	690	47	1,010	1,208
	1914	7	43	725	35	1,036	1,153
	1909	6	52	685	38	957	1,083
Food preparations, not elsewhere specified.	1919	14	149	550	130	713	1,093
	1914	12	60	187	32	218	313
Foundry and machine-shop products.[6]	1919	278	14,118	25,574	15,642	22,291	63,385
	1914	228	9,055	17,578	5,789	7,741	21,122
	1909	200	8,534	12,590	4,985	7,044	18,380
Grease and tallow, not including lubricating greases.	1919	8	242	624	286	1,437	2,105
	1914	6	158	397	104	158	319
Hats and caps, other than felt, straw, and wool.	1919	12	247	29	181	729	1,271
	1914	14	239	29	121	344	608
	1909	12	260	33	112	284	532
Ice, manufactured	1919	16	206	5,355	267	323	1,364
	1914	14	230	5,048	155	172	472
	1909	8	129	3,229	81	124	355

[1] Includes "automobile repairing" and "iron and steel, welding," in all years; "structural ironwork, not made in steel works or rolling mills," in 1919 and 1914; and "engines, steam, gas and water"; "hardware"; and "hardware, saddlery," in 1914.
[2] Includes "lumber and timber products" in 1914 and "window and door screens" in 1914 and 1909.
[3] Includes "bookbinding and blank-book making" and "lithographing" in 1914 and 1909.
[4] Includes "automobile repairing"; "bells"; "engines, steam, gas, and water"; "hardware, saddlery"; "pumps, steam and other power"; "iron and steel, welding"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "hardware," and "plumbers supplies, not elsewhere specified," in 1914 and 1909.
[5] Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."
[6] Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "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; "pumps, steam and other power," in 1919; and "bells," in 1914 and 1909.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.							
CINCINNATI—Continued.							
Jewelry	1919	24	324	133	$324	$1,395	$2,264
	1914	24	288	213	193	226	729
	1909	15	210	88	156	518	936
Leather goods [1]	1919	11	101	135	90	501	824
	1914	13	416	233	193	928	1,548
	1909	16	533	230	277	790	1,499
Leather, tanned, curried, and finished.	1919	13	682	2,187	786	7,145	10,094
	1914	12	755	2,382	474	3,954	5,426
	1909	13	997	2,269	570	3,677	5,059
Liquors, malt	1919	17	1,002	11,978	1,310	2,448	7,790
	1914	20	1,727	13,114	1,549	2,944	10,353
	1909	22	1,578	11,416	1,168	2,173	8,874
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	22	412	2,699	415	2,052	3,123
	1914	23	375	1,564	292	818	1,472
Marble and stone work	1919	25	136	789	165	273	668
	1914	27	327	1,171	214	268	750
	1909	25	269	854	181	252	632
Mattresses and spring beds, not elsewhere specified.	1919	11	154	232	134	608	1,009
	1914	10	84	200	50	181	306
	1909	9	165	227	74	223	394
Millinery and lace goods.	1919	15	308	89	196	487	889
	1914	9	293	31	105	203	443
	1909	11	428	59	120	204	547
Mineral and soda waters.	1919	12	104	144	122	370	980
	1914	12	116	92	68	79	246
Models and patterns, not including paper patterns.	1919	24	234	353	288	145	891
	1914	19	140	235	92	48	239
	1909	9	89	65	63	54	151
Optical goods	1919	13	104	53	105	147	419
	1914	5	36	22	23	32	100
Paint and varnish	1919	26	544	2,319	372	7,783	11,533
	1914	25	417	2,229	294	2,784	4,517
	1909	24	408	1,356	215	2,486	3,880
Patent medicines and compounds and druggists' preparations. [2]	1919	46	402	226	257	1,234	3,214
	1914	37	228	308	116	705	1,365
	1909	50	202	404	90	497	1,230
Photo-engraving	1919	11	136	51	163	72	427
	1914	8	101	169	150	78	358
Printing and publishing. [3]	1919	304	4,354	6,622	4,499	8,263	23,471
	1914	307	4,074	6,056	2,883	4,105	13,387
	1909	280	3,866	4,671	2,480	3,349	11,519
Signs and advertising novelties.	1919	13	142	292	135	174	428
	1914	7	159	210	84	145	294
Slaughtering and meat packing. [4]	1919	42	1,624	6,838	1,839	54,441	62,428
	1914	47	1,126	4,928	766	21,567	23,245
	1909	55	1,116	3,710	669	16,974	19,320
Wirework, not elsewhere specified.	1919	8	79	101	68	199	433
	1914	9	97	140	61	105	250
All other industries	1919	708	21,238	35,917	19,630	111,220	171,784
	1914	666	17,620	32,517	7,729	33,100	62,826
	1909	817	19,467	33,451	9,572	31,197	62,310
CLEVELAND—All industries.	1919	2,946	157,730	460,108	211,206	613,449	1,091,577
	1914	2,345	103,317	277,066	67,351	198,403	352,418
	1909	2,148	84,728	199,898	48,053	154,915	271,961
Artificial stone products	1919	11	70	130	108	225	423
	1914	15	118	177	68	102	241
	1909	18	121	158	76	92	233
CLEVELAND—Continued.							
Automobiles, including bodies and parts.	1919	85	18,873	32,250	$28,047	$97,219	$154,567
	1914	36	7,006	10,867	5,371	14,732	27,117
	1909	32	6,408	9,135	4,023	10,417	21,404
Awnings, tents, and sails.	1919	9	329	318	329	1,128	1,961
	1914	8	233	94	119	458	721
Blacking and cleansing and polishing preparations.	1919	25	93	112	94	524	1,119
	1914	18	46	97	26	162	375
	1909	19	51	55	29	159	355
Boxes, cigar	1919	4	51	54	23	51	108
	1914	4	54	35	21	44	82
	1909	5	69	27	19	43	97
Boxes, paper and other, not elsewhere specified.	1919	9	866	785	673	1,449	3,135
	1914	9	708	489	328	772	1,468
	1909	6	739	647	266	627	1,141
Brass and bronze products.	1919	22	947	831	1,297	4,452	6,622
	1914	28	789	879	534	1,418	2,491
	1909	28	801	872	518	1,362	2,568
Bread and other bakery products.	1919	288	2,184	2,513	2,697	11,812	19,413
	1914	224	1,612	1,787	1,222	3,917	6,908
	1909	198	1,229	14	804	2,722	4,731
Brooms, from broom corn.	1919	10	67	41	71	209	352
	1914	7	34	21	23	64	102
Butter	1919	7	114	246	94	2,415	2,744
	1914	6	32	145	22	926	1,064
Carriages and wagons, including repairs. [5]	1919	18	180	425	271	354	891
	1914	30	289	347	219	271	696
	1909	33	267	175	182	142	462
Cars and general shop construction and repairs by steam-railroad companies.	1919	8	4,081	6,040	6,144	4,834	11,571
	1914	9	2,877	7,838	2,362	2,297	4,958
	1909	6	1,372	1,640	843	1,077	2,056
Chemicals	1919	9	1,021	5,305	1,495	3,593	7,593
	1914	6	653	2,773	488	1,644	3,130
	1909	5	469	1,840	307	978	1,866
Clothing, men's [6]	1919	73	3,174	748	3,452	9,632	19,433
	1914	68	3,590	646	1,606	4,516	9,546
	1909	93	2,745	346	1,096	3,203	5,953
Clothing, women's	1919	103	5,626	1,291	6,337	17,964	35,308
	1914	106	6,955	1,074	3,717	8,266	16,243
	1909	96	5,418	771	2,903	6,496	12,789
Confectionery and ice cream. [7]	1919	41	1,395	5,019	1,333	5,409	11,375
	1914	31	1,206	2,410	517	2,837	4,965
Cooperage [8]	1919	5	287	1,086	338	1,611	2,159
	1914	7	301	1,035	138	623	855
	1909	10	261	533	136	471	708
Copper, tin and sheet-iron products. [9]	1919	122	1,418	1,403	1,820	2,779	6,164
	1914	71	1,542	1,422	919	1,854	3,865
	1909	37	1,364	1,231	640	1,628	2,966
Electrical machinery, apparatus, and supplies.	1919	78	8,113	14,196	10,026	25,102	52,324
	1914	40	3,326	4,831	1,948	5,892	11,358
	1909	40	1,578	1,980	760	1,780	4,036
Food preparations	1919	24	507	958	488	2,465	4,099
	1914	12	282	521	111	563	1,021
Foundry and machine-shop products. [10]	1919	421	33,324	64,594	45,029	64,028	157,024
	1914	267	22,301	39,107	15,186	20,869	50,951
	1909	231	17,915	24,204	10,485	15,324	37,443
Fur goods	1919	24	145	30	185	461	940
	1914	14	76	14	63	107	290
Furniture	1919	25	677	1,125	942	1,385	3,208
	1914	23	525	788	406	717	1,595
	1909	25	467	578	288	491	1,069

[1] Includes "trunks and valises" in all years and "saddlery and harness" in 1914 and 1909.
[2] Includes "perfumery and cosmetics."
[3] Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing" in all years. Excludes "printing and publishing, music," in 1919, to avoid disclosure of individual operations.
[4] Includes "sausage, not made in slaughtering and meat-packing establishments" in 1909.
[5] Includes "carriage and wagon materials" in 1914 and 1909.
[6] Includes "shirts" in 1914 and 1909.
[7] Includes "chewing gum" in 1914.
[8] Includes "wooden goods, not elsewhere specified," in 1914 and 1909.
[9] Includes "stamped and enameled ware, not elsewhere specified," in all years and "tinware, not elsewhere specified," in 1914 and 1909.
[10] Includes "automobile repairing"; "gas machines, and gas and water meters"; "hardware"; "iron and steel, cast-iron pipe"; "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"; "iron and steel, tempering and welding" in all years; "engines, steam, gas, and water," in 1919 and 1914; "pumps, power, other than steam," in 1914; and "bells" and "hardware, saddlery," in 1919.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.							
CLEVELAND—Continued.							
Gas and electric fixtures.[1]	1919	18	345	412	$407	$825	$1,763
	1914	19	323	347	222	529	974
	1909	17	326	199	193	229	654
Glass, cutting, staining, and ornamenting.	1919	11	67	52	69	253	471
	1914	8	55	26	39	46	125
Hats and caps, other than felt, straw, and wool.	1919	14	191	48	236	768	1,353
	1914	8	122	17	63	168	303
	1909	9	97	11	43	102	199
Iron and steel, steel works and rolling mills.	1919	16	9,719	125,302	15,847	60,142	84,425
	1914	15	8,149	70,844	6,050	24,552	33,389
	1909	14	7,538	60,575	5,150	28,039	38,463
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.	1919	11	3,603	5,758	4,619	7,573	17,264
	1914	7	1,675	4,393	969	2,009	3,542
Iron and steel forgings, not made in steel works or rolling mills.	1919	13	1,801	6,044	2,866	5,663	13,373
	1914	11	563	2,438	416	765	1,754
Jewelry	1919	17	70	49	106	110	290
	1914	21	105	71	79	74	232
	1909	15	102	34	66	62	208
Knit goods	1919	16	2,453	1,003	1,771	5,527	10,003
	1914	16	1,341	523	672	2,334	4,051
	1909	13	1,234	407	485	1,813	2,957
Leather goods[2]	1919	19	117	31	156	307	678
	1914	30	145	94	97	186	382
	1909	14	125	84	68	133	271
Liquors, malt	1919	8	758	7,067	1,095	1,713	5,774
	1914	12	1,056	6,554	805	1,858	6,528
	1909	11	744	3,395	594	1,484	5,124
Lumber, and timber products.[3]	1919	55	1,222	5,097	1,460	4,649	7,908
	1914	50	1,501	5,280	1,016	3,053	4,916
	1909	51	1,147	5,263	699	2,732	4,021
Marble and stone work	1919	26	194	997	280	405	1,086
	1914	19	206	664	159	207	475
	1909	18	315	789	192	197	468
Mattresses and spring beds.	1919	6	124	202	148	502	854
	1914	7	171	398	102	248	485
	1909	6	150	178	71	208	365
Millinery and lace goods.	1919	20	538	357	540	1,178	2,354
	1914	12	496	350	278	630	1,150
	1909	6	472	143	190	726	1,206
Mineral and soda waters	1919	29	152	208	199	528	1,096
	1914	25	80	112	50	144	299
Models and patterns, not including paper patterns.	1919	41	408	416	764	223	1,534
	1914	24	166	252	135	59	279
	1909	21	190	213	123	51	251
Optical goods	1919	7	74	46	96	226	542
	1914	7	50	24	32	97	245
Paint and varnish	1919	35	1,555	5,274	1,654	16,629	26,487
	1914	33	1,062	3,544	645	5,766	10,093
	1909	24	760	2,624	468	3,889	6,138
Patent medicines and compounds.[4]	1919	56	348	277	313	2,172	6,167
	1914	52	228	677	119	640	2,140
	1909	50	125	66	62	316	1,010
Photo-engraving	1919	7	113	61	208	76	511
	1914	5	67	31	79	23	196
	1909	3	58	23	50	36	144
CLEVELAND—Continued.							
Printing and publishing.[5]	1919	337	4,935	4,669	$6,763	$10,808	$33,336
	1914	272	4,002	5,154	3,439	4,155	13,986
	1909	245	3,104	3,328	2,009	2,780	9,635
Slaughtering and meat packing.[6]	1919	40	2,605	7,964	3,586	68,078	75,728
	1914	39	1,400	3,229	956	22,303	24,737
	1909	35	1,076	2,570	599	15,399	17,192
Stoves and hot-air furnaces, including gas and oil stoves.	1919	27	3,964	3,814	5,244	10,115	21,907
	1914	27	2,911	2,981	1,871	4,261	8,621
	1909	20	1,843	1,899	1,155	2,286	4,977
Tobacco, cigars[7]	1919	158	1,046	71	889	1,658	3,753
	1914	233	1,549	42	775	1,093	2,666
	1909	254	1,866	29	734	1,047	2,769
Tools, not elsewhere specified.[8]	1919	47	3,387	6,495	4,619	6,001	17,603
	1914	12	1,592	4,031	952	831	3,684
	1909	15	1,444	3,246	759	665	2,395
Wirework, not elsewhere specified.	1919	16	1,477	2,868	1,833	3,476	7,071
	1914	13	501	979	307	1,585	2,486
All other industries	1919	475	32,916	135,966	44,145	144,743	245,713
	1914	329	19,237	86,594	11,520	47,826	74,638
	1909	425	20,738	70,616	10,968	45,709	73,637
COLUMBUS—All industries.	1919	690	26,751	66,292	30,979	112,719	184,022
	1914	643	17,236	35,522	11,177	30,636	57,608
	1909	586	16,428	35,780	8,892	25,204	49,032
Awnings, tents, and sails.	1919	3	21	17	23	62	145
	1914	3	27	16	21	55	111
Boots and shoes	1919	9	1,872	1,264	1,700	6,152	10,198
	1914	7	1,725	889	876	3,537	5,224
	1909	8	2,479	845	1,076	3,224	5,436
Bread and other bakery products.	1919	64	617	1,057	600	3,092	5,204
	1914	75	545	1,106	351	1,153	2,119
	1909	58	435	75	222	1,092	1,765
Brooms, from broom corn.	1919	6	10	22	10	38	67
	1914	9	11	22	5	15	33
Cars and general shop construction and repairs by steam-railroad companies.	1919	5	4,856	7,826	5,873	8,353	15,214
	1914	4	2,753	3,281	2,195	3,166	5,401
Confectionery and ice cream.	1919	19	513	1,837	483	1,308	2,575
	1914	13	214	754	137	570	890
Electroplating	1919	3	21	93	22	13	56
	1914	4	34	111	19	7	48
Food preparations, not elsewhere specified.	1919	8	23	53	18	190	243
	1914	6	19	23	6	27	49
Foundry and machine-shop products.[9]	1919	91	4,327	7,989	5,897	9,786	21,586
	1914	59	2,477	4,272	1,688	3,153	6,959
	1909	58	3,012	4,148	1,841	3,465	7,744
Lumber and timber products.[10]	1919	20	334	1,993	387	1,329	2,243
	1914	21	358	1,910	246	613	1,088
	1909	27	434	1,808	264	758	1,240
Marble and stone work.	1919	6	20	50	46	64	163
	1914	7	42	75	42	55	135
	1909	6	70	445	47	75	169
Models and patterns, not including paper patterns.	1919	9	44	57	51	22	134
	1914	8	34	89	29	9	59
	1909	8	34	58	23	11	70
Patent medicines and compounds and druggists' preparations.[11]	1909	28	157	172	109	599	1,693
	1914	23	137	184	59	311	1,068
	1909	13	140	285	61	239	946
Printing and publishing.[12]	1919	110	1,140	1,333	1,176	2,407	6,933
	1914	107	1,026	1,283	712	950	3,528
	1909	91	901	879	592	689	2,660

[1] Includes "lamps and reflectors" in 1914 and 1909.
[2] Comprises "saddlery and harness" and "trunks and valises."
[3] Comprises "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens" in all years; and "lumber and timber products," in 1914 and 1909.
[4] Includes "perfumery and cosmetics" in all years, and "druggists' preparations" in 1914 and 1909, the latter was omitted in 1919 to avoid disclosure of individual operations.
[5] Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
[6] Includes "sausage."
[7] Includes "tobacco, chewing and smoking, and snuff," in 1914 and 1909.
[8] Includes "cutlery and edge tools" in 1914 and 1909, excluded in 1919 to avoid disclosure of individual operations.
[9] Includes "automobile repairing"; "gas machines and gas and water meters"; "hardware"; "iron and steel, cast-iron pipe"; "iron and steel, welding"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills."
[10] Includes "boxes, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills," for all years; and "window and door screens and weather strips," for 1919.
[11] Includes "perfumery and cosmetics."
[12] Includes "bookbinding and blank-book making" and "lithographing" for all years; and "engraving, steel and copper plate, including plate printing," for 1919.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

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

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
COLUMBUS—Continued.							
Shirts	1919	5	29	10	$21	$61	$117
	1914	4	33	5	13	24	69
Slaughtering and meat packing.[1]	1919	7	241	1,110	241	5,857	6,516
	1914	7	204	606	121	2,984	3,211
	1909	6	130	365	101	1,964	2,354
Stoves and hot-air furnaces, including gas and oil stoves.	1919	12	268	380	330	610	1,134
	1914	7	234	261	190	371	852
	1909	10	204	377	173	310	722
All other industries	1919	285	12,249	41,029	13,992	72,716	109,751
	1914	279	7,363	20,635	4,467	13,636	26,764
	1909	301	8,499	26,495	4,492	13,377	25,926
DAYTON All industries.	1919	571	31,131	52,749	39,680	78,460	174,991
	1914	523	24,061	42,109	14,076	32,954	71,071
	1909	513	21,549	31,501	12,451	27,528	60,378
Boxes, set-up paper boxes and cartons.	1919	5	439	364	274	518	1,257
	1914	5	518	408	196	460	863
	1909	5	540	376	196	486	932
Brass, bronze, and copper products.	1919	9	216	318	274	734	1,272
	1914	8	95	115	69	207	332
	1909	7	210	340	145	213	481
Bread and other bakery products.	1919	57	530	912	575	2,923	4,522
	1914	64	491	651	290	1,213	2,013
	1909	65	350	401	187	949	1,531
Carriages and wagons, including repairs.	1919	3	14	43	18	21	50
	1914	12	67	206	52	62	145
Clothing, men's [2]	1919	7	283	73	184	815	1,787
	1914	4	147	148	63	138	277
	1909	4	196	125	71	209	354
Confectionery and ice cream.	1919	20	261	590	218	920	1,473
	1914	16	197	351	91	302	528
Copper, tin, and sheet-iron work.	1919	6	38	.....	48	101	152
	1914	11	72	51	43	81	178
	1909	11	63	50	44	88	178
Foundry and machine-shop products.[3]	1919	98	5,053	11,281	6,693	7,754	19,766
	1914	71	3,424	5,862	2,119	2,944	6,859
	1909	69	3,585	5,576	2,033	2,800	6,778
Furniture	1919	7	432	754	398	562	1,489
	1914	10	400	667	210	285	825
	1909	10	423	795	200	287	744
Lumber and timber products.[4]	1919	10	465	1,930	545	1,558	2,644
	1914	12	576	1,799	416	1,151	1,899
	1909	11	512	1,650	325	878	1,417
Marble and stone work.	1919	6	52	93	43	243	266
	1914	4	14	30	11	14	36
	1909	6	41	80	33	39	95
Mineral and soda waters	1919	7	24	72	20	149	288
	1914	6	22	56	18	35	79
Models and patterns, not including paper patterns.	1919	12	65	95	105	31	223
	1914	7	37	100	26	8	50
	1909	5	31	44	20	5	35
Printing and publishing [5]	1919	50	763	1,309	809	1,088	3,643
	1914	50	680	1,045	459	560	1,774
	1909	45	630	1,078	386	440	1,552
Slaughtering and meat packing.	1919	12	290	1,352	347	7,479	8,415
	1914	9	275	669	193	3,846	4,831
	1909	10	245	484	145	2,636	3,171
DAYTON—Continued.							
Tobacco, cigars	1919	29	1,102	124	$764	$1,454	$3,058
	1914	44	1,582	115	533	905	2,055
	1909	56	1,428	52	487	831	1,893
Tools, not elsewhere specified.	1919	36	1,200	993	1,896	715	3,785
	1914	8	52	112	34	13	76
	1909	4	40	59	21	7	62
Toys and games	1919	8	220	240	184	280	639
	1914	5	242	162	116	245	476
All other industries	1919	189	19,684	32,206	26,276	51,115	120,202
	1914	177	15,170	29,384	9,137	20,485	47,775
	1909	205	13,255	20,391	8,158	17,660	41,155
SPRINGFIELD All industries.	1919	206	12,264	20,191	13,372	33,890	67,759
	1914	253	7,868	13,113	5,328	13,704	27,722
Agricultural implements.	1919	6	1,575	3,081	1,633	3,301	7,206
	1914	7	1,447	2,436	1,211	2,733	5,762
Artificial stone products	1919	4	15	20	14	18	40
	1914	9	24	68	17	18	53
Bread and other bakery products.	1919	14	102	208	118	552	818
	1914	27	103	134	66	236	398
Copper, tin, and sheet-iron work.	1919	7	28	12	34	70	134
	1914	6	38	40	25	33	76
Foundry and machine-shop products.[6]	1919	44	2,674	4,952	3,275	5,506	12,972
	1914	45	2,100	4,230	1,467	2,688	5,790
Models and patterns, not including paper patterns.	1919	6	19	22	30	5	58
	1914	6	9	16	8	2	18
Musical instruments, piano materials.	1919	3	508	975	660	596	2,037
	1914	3	540	478	293	246	758
Printing and publishing, book and job.	1919	16	176	195	172	208	607
	1914	18	140	110	88	92	280
Tobacco, cigars	1919	7	20	.....	10	20	43
	1919	14	51	10	23	23	72
All other industries	1919	99	7,147	10,717	7,426	23,614	43,845
	1914	118	3,416	5,591	2,130	7,633	14,515
TOLEDO All industries.	1919	671	42,090	93,227	53,363	173,288	293,521
	1914	713	27,076	53,369	18,124	70,494	115,049
	1909	760	18,878	43,946	9,911	34,084	61,230
Artificial stone products.	1919	11	51	80	71	153	293
	1914	12	29	69	17	37	82
Bread and other bakery products.	1919	79	661	943	757	3,550	5,775
	1914	76	579	541	370	1,253	2,307
	1909	88	468	314	260	959	1,598
Brooms, from broom corn.	1919	5	14	12	18	48	80
	1914	5	25	24	15	31	57
Cars and general shop construction and repairs by steam-railroad companies.	1919	5	1,022	1,660	1,592	768	2,610
	1914	6	814	1,254	596	534	1,202
	1909	4	1,198	935	634	674	1,427
Clothing, women's	1919	8	673	163	720	2,335	4,163
	1914	13	892	200	515	1,410	2,434
	1909	13	1,150	155	492	1,375	2,323
Confectionery and ice cream.[7]	1919	12	306	599	246	1,748	2,777
	1914	12	184	290	81	507	778
Cooperage and wooden goods, not elsewhere specified.	1919	5	76	151	76	235	395
	1914	8	85	75	38	104	189
	1909	10	116	145	52	106	195

[1] Includes "sausage" in 1914 and 1909.
[2] Includes "shirts" for 1914 and 1909.
[3] Includes "automobile repairing"; "gas machines and gas and water meters"; "hardware"; "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"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "engines, steam, gas, and water" and "pumps, steam and other power," in 1919 and 1914.
[4] Includes "boxes, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills."
[5] Includes "bookbinding and blank-book making" and "lithographing" in 1914 and 1909.
[6] Includes "automobile repairing"; "engines, steam, gas, and water"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills."
[7] Includes "chewing gum" in 1914.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.	INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.								Expressed in thousands.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
TOLEDO—Continued.								**TOLEDO**—Continued.							
Copper, tin, and sheet-iron products.[1]	1919	20	753	984	$796	$2,349	$4,298	Patent medicines and compounds and druggists' preparations.[5]	1919	25	41	93	$45	$138	$469
	1914	35	698	713	465	1,020	2,029		1914	31	51	102	20	125	453
	1909	37	547	265	282	649	1,303		1909	51	76	154	36	149	540
Electrical machinery, apparatus, and supplies.	1919	13	3,365	5,413	3,187	8,871	19,246	Printing and publishing.[6]	1919	36	867	1,278	1,007	1,991	5,999
	1914	11	918	1,155	397	1,821	3,230		1914	38	889	1,095	670	858	2,991
	1909	7	416	248	168	239	932		1909	72	763	806	480	523	2,004
Flour-mill and gristmill products.	1919	6	236	2,723	291	11,516	13,433	Tools, not elsewhere specified.	1919	9	231	213	304	103	596
	1914	6	234	3,345	187	5,277	5,815		1914	4	15	30	12	5	33
	1909	7	204	3,510	140	4,931	5,662								
Foundry and machine-shop products.[2]	1919	71	6,390	13,072	9,118	11,915	30,235	All other industries.....	1909	253	26,447	61,605	33,883	124,331	197,304
	1914	67	3,796	6,679	2,674	3,137	7,855		1914	272	16,823	34,339	11,351	52,585	82,199
	1909	75	3,191	6,931	1,905	3,161	7,024		1909	327	9,472	26,738	4,801	19,341	34,808
Furniture.....	1919	9	199	370	215	296	763	**YOUNGSTOWN**.. All industries.	1919	239	19,414	303,887	38,319	163,099	241,468
	1914	16	374	740	231	299	734		1914	201	15,861	196,605	12,349	69,077	92,111
	1909	23	580	884	303	545	1,128		1909	115	10,498	140,907	7,835	62,292	81,271
House-furnishing goods.	1919	5	29	7	29	116	202	Artificial stone products.	1919	7	14	66	17	20	70
	1914	3	19	12	15	59	128		1914	9	48	95	23	20	55
Lumber and timber products.[3]	1919	20	444	2,332	484	1,728	2,694	Bread and other bakery products.	1919	44	238	319	362	1,700	2,713
	1914	21	486	2,141	333	1,054	1,747		1914	43	130	115	83	316	620
	1909	28	585	2,480	286	1,111	1,793		1909	22	65	23	38	133	249
Marble and stone work, except slate.	1919	6	85	167	166	282	659	Confectionery and ice cream.	1919	11	68	579	110	418	834
	1914	8	63	227	57	197	331		1914	7	70	265	37	84	189
	1909	6	62	142	43	108	217								
Mineral and soda waters	1919	8	48	125	66	186	338	Foundry and machine-shop products.[7]	1919	36	2,461	11,216	4,265	13,191	23,082
	1914	8	46	119	33	55	159		1914	19	2,040	8,492	1,580	4,442	7,235
									1909	15	1,153	2,674	800	2,702	4,865
Models and patterns, not including paper patterns.	1919	9	97	78	169	58	323	Printing and publishing.	1919	28	295	482	425	526	2,082
	1914	6	16	33	15	4	29		1914	21	243	303	181	178	792
	1909	7	16	29	9	5	24		1909	13	164	188	109	128	454
Paints[4].....	1919	6	55	259	60	571	869	All other industries.....	1919	113	16,338	201,225	33,140	147,238	212,077
	1919	5	40	186	23	122	207		1914	102	13,324	187,395	10,445	64,037	83,220
	1909	5	34	150	20	158	252		1909	65	9,116	138,022	6,888	59,320	75,703

[1] Includes "stamped ware, not elsewhere specified," and "tinware, not elsewhere specified."
[2] Includes "automobile repairing"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "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 "hardware" in 1919 and 1914; and "steam fittings and steam and hot-water heating apparatus" in 1919 and 1909.
[3] Comprises "boxes, wooden packing"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."
[4] Includes "varnishes" in 1919.
[5] Includes "perfumery and cosmetics."
[6] Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
[7] Includes "automobile repairing"; "hardware"; "iron and steel, welding"; and "structural ironwork, not made in steel works or rolling mills."

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments.	Wage earners (average number).	Primary horsepower.	Wages.	Cost of materials.	Value of products.
					Expressed in thousands.		
CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.							
ALLIANCE	1919	74	5,117	12,481	$5,769	$14,789	$32,871
	1914	52	2,333	4,678	1,617	3,656	7,175
	1909	44	2,524	3,453	1,462	2,853	6,135
ASHTABULA	1919	62	4,172	9,013	5,813	10,969	23,099
	1914	57	1,868	7,327	1,345	2,825	5,021
	1909	44	1,471	2,379	814	2,084	3,459
BARBERTON	1919	32	4,762	29,000	6,261	14,696	27,713
	1914	34	3,118	7,211	1,734	4,106	8,844
BELLAIRE	1919	45	2,277	15,387	2,729	9,929	14,502
	1914	40	2,603	14,390	1,566	9,278	12,170
	1909	36	2,597	17,790	1,412	7,159	10,092
CAMBRIDGE	1919	32	1,782	5,160	3,038	5,853	11,227
	1914	30	1,455	5,742	1,112	2,340	3,924
	1909	32	1,230	5,055	919	2,885	4,201
CHILLICOTHE	1919	35	1,638	5,036	1,840	4,340	7,667
	1914	46	1,557	4,765	852	2,571	4,083
	1909	57	1,674	3,558	707	3,038	4,345
COSHOCTON	1919	45	1,959	5,430	1,652	3,873	7,685
	1914	47	1,614	3,501	805	1,814	3,477
EAST CLEVELAND	1919	17	88	217	104	191	421
	1914	7	129	397	81	147	298
EAST LIVERPOOL	1919	67	4,311	5,911	4,546	4,891	12,501
	1914	80	4,830	6,051	2,935	2,842	7,093
	1909	82	4,873	5,528	2,764	2,521	6,629
ELYRIA	1919	75	4,590	14,481	6,029	10,228	25,191
	1914	63	2,735	10,814	1,759	5,016	8,792
	1909	58	2,673	9,058	1,878	4,495	8,065
FINDLAY	1919	75	1,715	4,098	1,543	4,828	7,924
	1914	78	1,737	3,561	778	2,791	4,663
	1909	74	1,376	2,574	574	2,094	3,487
FREMONT	1919	53	2,999	5,752	3,114	5,438	12,915
	1914	65	2,063	3,664	1,097	2,296	4,780
HAMILTON	1919	130	8,553	27,596	10,094	22,637	47,024
	1914	129	6,043	16,767	3,565	9,015	16,877
	1909	125	6,895	22,563	3,798	9,640	18,184
IRONTON	1919	52	1,971	16,968	2,252	8,837	14,072
	1914	59	1,420	15,147	721	3,294	4,666
	1909	63	1,920	15,548	888	4,994	7,118
LAKEWOOD	1919	33	1,821	2,435	2,254	3,853	7,603
	1914	22	1,774	2,969	1,022	1,604	3,606
LANCASTER	1919	43	2,024	3,189	2,033	6,732	11,479
	1914	53	1,583	2,874	790	3,287	4,603
	1909	42	1,532	2,453	677	3,051	4,074
LIMA	1919	108	4,901	11,075	5,293	12,743	23,639
	1914	97	4,876	7,518	3,178	6,369	11,599
	1909	85	3,607	3,264	2,024	3,869	7,754
LORAIN	1919	55	11,677	148,253	$22,955	$65,995	$116,909
	1914	66	6,436	211,182	4,660	17,929	29,110
	1909	57	6,697	208,992	4,788	24,222	38,987
MANSFIELD	1919	132	4,711	9,123	5,570	17,359	31,878
	1914	103	3,398	6,637	2,029	4,772	10,282
	1909	121	3,204	5,077	1,472	4,356	8,173
MARIETTA	1919	59	1,285	3,716	1,213	2,852	5,917
	1914	71	1,401	3,117	844	2,383	4,129
	1909	66	1,288	2,742	594	1,787	3,215
MARION	1919	70	4,125	9,601	4,831	10,374	20,713
	1914	66	2,577	5,575	1,512	2,562	6,385
	1909	55	2,619	3,686	1,405	2,577	5,667
MASSILLON	1919	80	2,153	9,931	2,715	7,074	13,985
	1914	70	1,768	5,544	1,166	2,719	5,293
	1909	56	1,934	4,730	1,127	2,290	4,788
MIDDLETOWN	1919	56	6,442	56,386	8,729	35,687	62,838
	1914	63	4,003	35,328	2,888	10,580	21,787
	1909	41	2,576	9,304	1,389	7,950	16,517
NEWARK	1919	79	4,570	10,314	4,532	8,272	16,563
	1914	79	4,583	8,071	2,969	3,574	9,277
	1909	72	3,913	8,630	1,958	3,982	7,851
NORWOOD	1919	70	8,283	16,218	8,149	20,223	47,947
	1914	58	5,808	9,865	3,614	7,217	16,724
	1909	49	3,907	6,381	2,081	4,021	9,684
PIQUA	1919	66	3,203	7,212	3,037	10,955	19,921
	1914	78	2,777	5,721	1,508	4,554	7,988
	1909	82	2,683	5,062	1,292	3,852	6,031
PORTSMOUTH	1919	60	5,914	22,392	6,907	20,178	36,646
	1914	76	3,597	5,099	1,751	4,079	7,682
	1909	75	3,728	4,028	1,459	3,894	7,277
SANDUSKY	1919	115	3,447	15,949	3,666	10,660	19,249
	1914	107	2,727	7,415	1,688	4,059	8,285
	1909	91	2,118	4,856	1,006	2,835	5,947
STEUBENVILLE	1919	57	3,855	44,531	6,689	16,376	30,903
	1914	60	4,506	36,731	3,430	11,432	16,959
	1909	55	4,267	37,748	3,203	14,443	21,187
TIFFIN	1919	75	2,213	3,748	2,439	4,750	10,516
	1914	76	2,177	4,464	1,410	2,392	4,996
	1909	75	1,632	3,257	828	1,252	3,254
WARREN	1919	96	2,433	6,083	3,274	11,931	19,747
	1914	82	2,862	5,747	1,933	6,355	10,400
	1909	68	1,798	5,530	911	3,064	5,988
ZANESVILLE	1919	97	3,014	7,557	2,942	7,427	13,438
	1914	97	3,035	7,064	1,685	5,246	8,300
	1909	108	2,932	7,783	1,582	5,056	8,020

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.															
1 All industries	16,125	882,918	12,823	30,265	71,636	37,461	730,733	De 790,681	My 687,683	(3)	(3)	(3)	(3)	(3)	*Dollars.* 3,748,743,998
2 Agricultural implements	46	5,991	27	240	585	208	4,931	Mh 5,411	Jy 4,406	5,283	5,216	67	.....	.....	27,884,087
3 Aluminum manufactures	20	2,382	4	143	243	152	1,840	De [4] 2,390	Je 1,405	2,269	2,080	189	.....	.....	7,601,815
4 Artificial flowers	6	33	6	3	.....	2	22	Je [4] 24	Oc 19	21	5	16	.....	.....	33,769
5 Artificial limbs	17	66	18	8	2	4	34	Oc 39	Ap [4] 32	35	33	2	.....	.....	86,294
6 Artificial stone products	339	1,205	384	65	10	25	721	Au 988	Ja 341	895	895	.....	.....	.....	2,523,168
7 Automobile bodies and parts	237	19,561	161	727	1,244	759	16,670	De 21,679	Fe 12,635	21,607	20,203	1,310	81	4	65,425,652
8 Automobiles	44	33,760	2	715	2,407	1,424	29,212	De 35,931	My 20,274	30,997	35,654	1,343	.....	.....	191,041,010
9 Automobile repairing	540	3,463	623	144	100	166	2,430	Oc 2,798	Ja 2,150	2,503	2,467	26	10	.....	5,811,464
10 Awnings, tents, and sails	41	1,040	29	46	69	45	851	Jy 1,069	Fe 642	865	373	489	.....	3	5,463,880
11 Bags, paper, exclusive of those made in paper mills.	11	924	1	57	117	55	694	De 794	Mh 604	704	353	351	.....	.....	4,575,170
12 Baskets, and rattan and willow ware.	29	383	40	15	4	5	319	Au 359	My 289	315	199	115	1	.....	232,216
13 Belting, leather	10	184	.....	26	42	14	102	De 118	Je [4] 94	109	107	2	.....	.....	1,072,289
14 Blacking, stains, and dressings	13	81	16	13	7	5	40	Jy 59	Ja 31	45	25	20	.....	.....	244,079
15 Bookbinding and blank-book making	54	1,301	56	44	255	112	834	De 1,004	Fe 762	997	529	464	4	.....	3,242,432
16 Boot and shoe cut stock	7	310	3	22	11	6	268	No 298	Ja [4] 243	289	196	93	.....	.....	813,262
17 Boots and shoes, not including rubber boots and shoes.	60	15,753	13	428	620	600	14,092	De 14,963	Ap 13,473	14,923	8,718	6,088	92	25	40,178,881
18 Boxes, cigar	19	419	18	12	5	5	379	De 404	Au 354	405	155	250	.....	.....	394,767
19 Boxes, paper and other, not elsewhere specified.	58	3,275	24	151	69	79	2,952	.....	.....	3,202	1,152	2,027	3	20	6,118,841
20 Shipping containers, corrugated and fiber.	10	432	.....	38	8	17	369	De 428	My 287	433	267	165	1	.....	1,037,665
21 Set-up paper boxes	38	2,335	22	85	49	45	2,134	No 2,340	Je 2,009	2,281	624	1,636	1	20	3,816,796
22 Cartons	10	508	2	28	12	17	449	No [4] 485	Je 406	488	261	226	1	.....	1,264,380
23 Boxes, wooden packing, except cigar boxes.	98	2,148	99	99	49	27	1,874	De 1,999	Ap 1,746	2,008	1,883	122	3	.....	4,346,740
24 Brass, bronze, and copper products	92	5,019	57	230	318	150	4,264	.....	.....	4,983	4,773	203	7	.....	16,887,041
25 Brass and bronze products	81	4,778	46	209	301	143	4,079	No 4,800	Fe 3,538	4,743	4,560	181	7	.....	16,028,331
26 All other	11	241	11	21	17	7	185	No 236	Fe 143	235	213	22	.....	.....	859,310
27 Bread and other bakery products	1,621	13,353	1,803	392	1,358	709	9,091	.....	.....	9,880	7,278	2,531	53	18	57,719,262
28 Biscuit and crackers	12	2,140	.....	63	260	94	1,723	De 1,969	My 1,602	1,963	982	975	1	5	5,952,100
29 Bakery products, other than biscuit and crackers.	1,609	11,213	1,803	329	1,098	615	7,368	De 7,897	Fe 6,785	7,917	6,296	1,556	52	13	51,767,162
30 Brick and tile, terra-cotta, and fire-clay products.	341	13,548	239	615	404	230	12,060	.....	.....	13,230	12,672	497	61	.....	64,371,925
31 Building brick	96	4,250	36	234	134	78	3,768	Au 4,760	Fe 2,319	4,300	4,239	54	7	.....	24,737,590
32 Fire brick	36	2,214	6	97	60	35	2,016	No 2,080	Au 1,725	2,171	2,102	26	43	.....	9,102,274
33 Sewer pipe and draintile	158	3,474	187	144	64	43	3,036	Au 3,428	De 2,406	3,076	3,054	16	6	.....	12,801,430
34 Terra-cotta products	46	3,321	10	120	139	72	2,980	Se 3,488	Ja 2,207	3,450	3,050	395	5	.....	16,343,095
35 All other	5	289	.....	20	7	2	260	Ja 295	Au 226	233	227	6	.....	.....	1,386,936
36 Brooms, from broom corn	79	489	85	19	32	12	341	Oc 358	Je 331	363	313	49	1	.....	857,875
37 Brushes	19	1,115	12	55	144	88	816	De 1,018	My 688	1,020	809	211	.....	.....	3,315,972
38 Butter	141	2,029	77	167	134	289	1,362	Jy 1,531	Ja 1,148	1,361	1,100	196	5	.....	8,018,205
39 Buttons	6	125	3	5	1	2	114	Ja 139	My 65	145	127	18	.....	.....	182,125
40 Canning and preserving, fruits and vegetables.	87	1,868	52	157	38	45	1,576	.....	.....	3,911	2,211	1,651	18	31	6,744,352
41 Canned vegetables	82	1,801	50	151	37	44	1,519	Se 4,541	De 347	3,740	2,083	1,608	18	31	6,486,158
42 All other	5	67	2	6	1	1	57	Jy 321	Ja 11	171	128	43	.....	.....	258,194
43 Card cutting and designing	4	246	1	9	21	12	203	No 252	My 168	233	74	159	.....	.....	321,981
44 Carpets, rag	25	144	28	5	4	2	105	Je [4] 116	Ja [4] 84	106	65	37	4	.....	76,337
45 Carriage and wagon materials	33	1,390	22	58	52	39	1,219	De 1,461	Ja 904	1,450	1,303	146	1	.....	3,632,774
46 Carriages and wagons, including repairs.	119	1,317	125	84	62	52	994	.....	.....	940	918	22	.....	.....	3,818,584
47 Carriages and wagons	59	1,044	47	71	60	50	816	Ap 880	No 742	754	733	21	.....	.....	3,362,376
48 Repair work only	60	273	78	13	2	2	178	No 189	Ja 165	186	185	1	.....	.....	456,208
49 Cars and general shop construction and repairs by electric-railroad companies.	60	2,009	1	60	19	26	1,903	Mh 1,965	Ja 1,767	1,899	1,894	5	.....	.....	4,942,956
50 Cars and general shop construction and repairs by steam-railroad companies.	117	38,584	.....	1,177	1,742	420	35,245	De 37,286	Ap 32,688	37,234	36,973	261	.....	.....	42,581,602
51 Cars, steam-railroad, not including operations of railroad companies.	8	2,576	.....	79	237	83	2,177	De 2,539	Je 1,847	2,539	2,536	2	1	.....	20,576,710
52 Cement	6	721	.....	19	35	12	655	Au 756	Fe 502	646	644	2	.....	.....	4,346,385
53 Cheese	96	112	52	1	.....	.....	59	My 93	Ja [4] 21	86	86	.....	.....	.....	270,550
54 Chemicals	37	4,410	1	178	357	204	3,670	Oc 4,210	Ap 3,022	4,296	4,012	283	1	.....	26,764,298
55 Cleansing and polishing preparations.	54	320	50	42	58	39	131	.....	.....	150	93	56	1	.....	807,002
56 Cleansing preparations	33	213	30	30	33	23	97	Fe [4] 113	Jy 77	112	68	43	1	.....	452,060
57 Metal polish	5	23	3	5	5	2	8	([5]) 8	([5]) 8	8	6	2	.....	.....	38,280
58 All other polishing preparations	16	84	17	7	20	14	26	Se 32	Ja 20	30	19	11	.....	.....	316,662
59 Cloth, sponging and refinishing	6	76	5	3	1	3	64	Se 69	Ap [4] 61	65	65	.....	.....	.....	83,310
60 Clothing, men's	246	12,062	262	380	920	561	9,939	.....	.....	11,597	3,588	7,971	8	30	30,152,358
61 Regular factories	148	10,703	142	373	920	558	8,710	.....	.....	10,242	3,249	6,958	7	28	29,967,357
62 Men's, youths', and boys'	92	8,454	93	295	758	447	6,861	De 8,104	Ap 6,043	8,057	2,901	5,138	6	12	24,732,326
63 All other	56	2,249	49	78	162	111	1,849	No 2,231	Ap 1,471	2,185	348	1,820	1	16	5,235,531
64 Contract work	98	1,359	120	7	.....	3	1,229	De 1,352	Ap 1,174	1,355	339	1,013	1	2	185,001
65 Clothing, men's, buttonholes	8	101	10	2	.....	3	86	De 98	Ja 78	98	19	79	.....	.....	27,456
66 Clothing, women's	175	10,045	133	432	717	505	8,258	.....	.....	8,223	2,593	5,573	8	49	21,789,994
67 Regular factories	144	9,541	104	410	716	503	7,808	.....	.....	7,959	2,517	5,120	5	17	21,628,739
68 Suits, skirts, and cloaks	70	6,093	60	241	513	382	4,897	Au 5,514	My 4,409	4,853	2,108	2,741	4	.....	15,060,910
69 Shirt waists and dresses, except house dresses.	32	2,297	20	97	148	76	1,950	Au 2,147	Ja 1,767	1,782	315	1,467	.....	.....	4,003,340
70 Undergarments and petticoats.	11	415	2	20	12	20	361	No 395	My 334	386	36	350	.....	.....	1,194,190
71 Wrappers and house dresses	11	245	9	15	22	10	189	Jy 228	My 161	212	9	185	1	17	428,564
72 All other	20	491	13	37	21	15	405	No 440	Ja 336	426	49	377	.....	.....	941,735
73 Contract work	31	504	29	22	1	2	450	De 558	Ap 372	564	76	453	3	32	161,255

[1] Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
[2] Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).
[3] No figures given for reason stated under "Explanation of terms."

COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.							
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.							
											Owned.					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.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.																	
Dollars. 114,246,012	*Dollars.* 159,468,347	*Dollars.* 944,651,734	*Dollars.* 17,600,025	*Dollars.* 16,130,610	*Dollars.* 179,262,557	*Dollars.* 2,729,033,617	*Dollars.* 182,914,254	*Dollars.* 5,100,308,728	*Dollars.* 2,188,360,857	2,897,497	1,407,558	374,954	147,039	10,115	957,831	819,383	1
946,901	1,130,349	5,675,451	1,500	10,480	571,380	12,611,928	354,807	26,556,031	13,589,296	10,470	4,170	1,433	1,565	220	3,082	5,893	2
601,532	642,574	2,746,873	7,800	8,172	174,882	6,476,630	195,942	11,132,231	4,459,659	4,721	.....	.....	1,060	.....	3,661	776	3
7,515	2,245	21,765	.....	4,910	653	45,409	177	112,543	66,957	1	.....	.....	.....	.....	1	.....	4
19,734	8,799	37,266	700	19,727	1,607	52,799	1,159	197,605	143,647	27	.....	.....	4	.....	23	.....	5
99,661	27,139	830,254	7,009	15,199	19,356	1,365,930	30,122	2,992,977	1,587,925	1,932	286	.....	708	.....	938	8	6
2,408,535	2,393,441	21,966,409	60,467	272,474	2,116,799	51,448,973	1,092,976	92,390,646	39,848,697	41,566	2,442	40	649	.....	38,435	662	7
3,513,285	5,147,108	41,443,839	97,566	53,798	9,910,381	196,354,341	2,084,620	287,045,832	88,606,871	37,473	6,113	400	228	.....	30,732	3,061	8
271,286	230,647	3,311,759	38,435	283,077	86,497	4,344,652	149,745	10,245,408	5,751,011	3,678	180	.....	735	.....	2,763	6	9
109,830	146,443	753,692	1,552	27,077	289,482	3,689,161	46,659	6,037,359	3,201,539	1,732	225	.....	47	.....	1,460	20	10
313,736	278,373	653,579	566	27,380	388,106	9,109,811	29,421	12,609,656	3,470,424	785	590	.....	.....	.....	195	591	11
25,775	8,411	239,450	1,131	2,376	2,932	128,620	6,107	537,898	403,171	639	556	.....	8	.....	75	.....	12
39,623	44,598	107,356	.....	13,367	14,263	1,132,842	5,032	1,549,695	411,821	166	.....	.....	.....	55	111	.....	13
50,310	23,128	32,482	55	3,260	8,169	260,691	2,492	588,551	325,368	42	.....	.....	.....	.....	42	.....	14
150,281	665,969	824,540	80,486	46,279	39,489	882,094	26,126	3,836,561	2,928,341	846	.....	.....	.....	.....	846	.....	15
52,791	15,549	197,455	.....	6,984	21,569	1,092,014	18,866	1,615,003	504,093	326	18	.....	5	.....	303	.....	16
1,682,426	3,208,137	12,545,100	92,931	130,409	1,772,248	40,521,015	281,469	71,354,850	30,552,366	9,137	4,188	155	343	.....	4,451	2,288	17
28,072	8,070	230,192	251	11,683	7,616	467,769	12,840	950,739	470,130	490	240	.....	91	.....	159	26	18
454,522	183,826	2,034,909	1,669	166,536	256,177	4,721,322	83,349	10,029,812	5,225,141	2,893	503	.....	265	.....	2,125	140	19
116,391	26,035	322,903	1,269	52,885	13,482	1,225,503	16,061	2,108,429	866,865	687	40	.....	75	.....	572	5	20
252,187	121,510	1,398,874	.....	101,375	220,907	2,447,137	46,449	5,975,716	3,482,130	1,449	203	.....	90	.....	1,156	135	21
85,944	36,281	313,132	400	12,276	21,788	1,048,682	20,839	1,945,667	876,146	757	260	.....	100	.....	397	.....	22
336,416	86,661	1,778,927	3,727	38,246	166,954	5,287,965	65,011	8,936,595	3,583,619	6,738	3,712	15	377	.....	2,634	149	23
1,001,777	755,044	5,893,721	4,939	43,639	903,828	15,527,757	649,776	27,801,760	11,624,227	10,915	1,792	300	904	.....	7,919	835	24
925,345	711,251	5,669,984	4,939	40,999	894,939	14,683,819	619,419	26,450,176	11,146,938	9,507	522	300	884	.....	7,801	785	25
76,432	43,793	223,737	.....	2,640	8,889	843,938	30,357	1,351,584	477,289	1,408	1,270	.....	20	.....	118	50	26
1,222,366	2,878,991	9,906,064	48,505	666,765	1,234,703	48,744,427	1,211,118	78,819,001	28,863,456	12,582	1,387	53	774	5	10,363	721	27
296,854	548,416	1,277,465	.....	18,343	618,401	6,264,518	122,544	11,583,100	5,196,038	1,357	451	.....	.....	.....	906	93	28
925,512	2,330,575	8,628,599	48,505	648,442	616,302	42,479,909	1,088,574	67,235,901	23,667,418	11,225	936	53	774	5	9,457	628	29
1,583,812	804,322	12,931,241	97,632	38,430	863,983	4,577,945	5,382,726	32,172,576	22,211,905	63,763	49,023	390	4,003	.....	10,347	5,818	30
527,392	218,175	4,275,566	2,005	19,745	191,867	1,070,390	2,042,884	10,731,413	7,612,133	23,626	17,561	.....	1,164	.....	4,901	1,100	31
367,012	148,591	2,141,364	13,103	13,059	256,619	1,046,233	816,857	5,613,721	3,750,631	8,449	6,591	60	.....	.....	1,798	385	32
319,985	146,509	3,234,075	16,346	4,210	251,309	1,362,773	1,381,544	7,989,373	5,245,056	18,236	15,665	300	760	.....	1,511	2,306	33
339,214	280,858	2,978,465	65,678	1,416	130,489	955,501	1,049,502	7,065,180	5,060,177	12,165	8,629	30	1,394	.....	2,112	1,252	34
30,209	10,189	301,771	500	.....	24,699	137,042	91,939	772,889	543,908	1,287	577	.....	685	.....	25	775	35
37,926	52,156	312,649	.....	8,443	12,627	921,033	13,893	1,706,377	771,451	352	30	.....	124	.....	198	.....	36
196,869	261,973	954,033	250	9,726	99,417	1,653,054	22,837	3,903,798	2,227,907	1,124	460	.....	170	.....	494	670	37
451,478	387,817	1,456,165	4,984	81,648	255,889	34,455,248	271,955	41,061,993	6,334,790	7,405	3,486	3	1,124	.....	2,792	748	38
7,094	3,079	82,693	.....	1,445	967	72,503	2,257	191,614	116,854	93	25	.....	25	.....	43	.....	39
285,099	67,253	775,723	508	3,785	174,408	4,347,443	64,869	6,838,327	2,426,015	5,103	3,844	123	400	.....	736	282	40
271,649	65,633	744,014	508	3,195	171,110	4,260,986	62,197	6,662,944	2,339,761	5,024	3,769	123	396	.....	736	282	41
13,450	1,620	31,709	.....	590	3,298	86,457	2,672	175,383	86,254	79	75	.....	4	.....	.....	.....	42
43,000	80,547	169,922	.....	12,024	37,817	255,980	3,250	850,123	590,893	112	.....	.....	.....	.....	112	.....	43
5,180	3,630	64,635	3,193	5,670	968	33,267	3,182	166,459	130,010	155	.....	.....	75	.....	80	3	44
161,642	99,859	1,182,154	.....	15,609	97,342	3,197,742	63,790	5,931,602	2,670,070	3,433	2,841	.....	195	.....	397	593	45
243,941	123,844	1,072,636	10,082	47,350	174,984	2,334,197	58,455	5,014,008	2,621,356	1,928	182	.....	465	.....	1,281	11	46
221,135	118,631	854,128	3,682	28,096	168,430	2,102,841	48,008	4,344,467	2,193,618	1,600	182	.....	376	.....	1,042	11	47
22,806	5,213	218,508	6,400	19,254	6,554	231,356	10,447	669,541	427,738	328	.....	.....	89	.....	239	.....	48
173,436	52,735	2,269,966	13,499	8,120	30,412	1,914,056	202,382	4,724,631	2,608,193	2,545	129	.....	2	.....	2,414	374	49
2,847,966	3,135,954	50,694,380	.....	81,000	89,567	36,997,952	2,592,096	96,483,946	56,893,898	50,650	24,943	5,187	1,610	.....	18,910	22,252	50
561,454	348,086	3,335,505	8,585	22,835	922,410	21,097,856	217,288	28,145,542	6,830,398	12,685	1,905	.....	450	.....	10,330	300	51
73,056	66,931	975,029	21,510	.....	43,810	615,907	898,344	3,338,594	1,824,343	13,514	5,225	1,000	80	.....	7,209	3,498	52
1,097	.....	125,422	2,698	3,879	3,991	1,514,248	11,064	1,753,274	227,962	510	435	72	3	.....	.....	.....	53
693,141	742,760	5,473,508	56,874	34,695	1,740,048	12,146,385	3,149,144	32,719,466	17,423,937	35,049	13,838	16,320	433	20	4,438	10,676	54
139,434	115,742	128,906	2,100	39,470	19,673	823,182	6,818	1,880,024	1,050,024	216	.....	.....	35	.....	181	.....	55
92,721	55,649	101,469	.....	31,574	9,462	548,541	4,911	1,324,310	770,858	149	.....	.....	15	.....	134	.....	56
8,185	12,765	8,040	.....	4,203	1,126	41,666	383	93,669	51,620	31	.....	.....	20	.....	11	.....	57
38,528	47,328	19,397	2,100	3,693	9,085	232,975	1,524	462,045	227,546	36	.....	.....	.....	.....	36	.....	58
8,200	2,619	68,283	.....	10,064	726	4,860	1,243	149,813	143,710	37	12	.....	.....	.....	25	.....	59
2,078,823	2,092,453	8,896,306	2,774,248	471,406	1,321,223	29,923,059	147,562	58,169,320	28,098,699	2,078	250	5	158	.....	1,665	75	60
2,063,503	2,089,369	7,812,583	2,738,037	448,382	1,318,553	20,897,953	132,443	56,675,670	26,645,274	1,852	250	5	73	.....	1,524	68	61
1,890,343	1,784,509	6,603,598	2,686,364	380,454	1,012,708	22,091,571	97,379	44,731,314	22,542,364	1,199	250	.....	10	.....	939	60	62
373,160	304,860	1,208,985	152,273	67,928	305,845	7,806,382	35,064	11,944,356	4,102,910	653	.....	5	63	.....	585	8	63
15,320	3,084	1,083,723	35,611	23,024	2,670	25,106	15,119	1,493,050	1,453,425	226	.....	.....	85	.....	141	7	64
4,680	1,738	55,961	.....	2,020	806	12,022	1,322	135,180	121,836	20	.....	.....	.....	.....	20	.....	65
1,989,569	2,214,821	8,641,836	599,855	401,017	660,054	25,965,475	111,545	48,703,704	22,626,684	2,008	297	.....	192	.....	1,519	51	66
1,961,308	2,213,101	8,285,782	591,860	385,639	659,466	25,963,211	107,464	48,189,130	22,118,455	1,902	297	.....	192	.....	1,413	51	67
1,330,054	1,643,293	5,886,855	449,424	259,378	490,978	17,288,307	63,606	32,808,603	15,456,690	1,239	297	.....	.....	.....	942	3	68
445,424	459,786	1,758,455	138,446	98,388	120,009	4,939,061	21,448	9,840,410	4,879,901	270	.....	.....	.....	.....	270	.....	69
57,170	43,149	252,619	.....	9,144	19,695	1,951,068	7,263	2,690,569	732,238	225	.....	.....	192	.....	33	48	70
45,445	33,471	119,463	.....	5,886	11,030	540,002	5,114	907,802	356,686	67	.....	.....	.....	.....	67	.....	71
83,215	33,402	268,390	3,990	12,843	17,754	1,238,773	10,033	1,941,746	692,940	101	.....	.....	.....	.....	101	.....	72
28,261	1,720	356,054	7,995	15,378	588	2,264	4,081	514,574	508,229	106	.....	.....	.....	.....	106	.....	73

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

TABLE 46.—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— Maximum month.	Number, 15th day of— Minimum month.		Male.	Female.	Male.	Female.	
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
															Dollars.
1 Coal-tar products	15	944	2	62	23	23	834	Fe 924	Je [3] 711	919	912	7	.....	.....	6,693,670
2 Coffee and spice, roasting and grinding.	43	1,811	17	103	480	123	1,088	Se 1,191	Mh 986	1,092	532	552	.....	8	9,778,088
3 Coffins, burial cases, and undertakers' goods.	20	1,377	15	71	100	43	1,148	Mh 1,221	Jy 1,100	1,125	925	200	.....	.....	4,382,695
4 Coke, not including gas-house coke	13	3,847	.....	109	268	63	3,407	Ja 4,257	Oc 2,256	3,154	2,713	2	439	.....	48,242,369
5 Condensed milk	30	806	3	41	24	27	711	Je 783	Ja 647	703	639	64	.....	.....	4,493,877
6 Confectionery and ice cream	380	7,248	417	361	494	525	5,451	.....	.....	6,230	2,652	3,526	37	15	18,347,323
7 Confectionery	185	5,297	179	221	382	375	4,137	Oc 5,423	Jy 3,304	4,991	1,533	3,425	18	15	11,454,893
8 Ice cream	195	1,951	238	137	112	150	1,314	Jy 1,742	Ja 995	1,239	1,119	101	19	.....	6,892,430
9 Cooperage	58	797	28	44	11	13	701	De 789	Mh 627	800	795	4	.....	1	2,800,774
10 Copper, tin, and sheet-iron work	262	3,434	265	231	135	153	2,650	De 2,955	Mh 2,288	3,007	2,848	157	2	.....	9,081,229
11 Cordials and flavoring sirups	8	178	4	15	37	16	106	Jy 139	Ja 89	102	71	31	.....	.....	901,517
12 Cutlery and edge tools	19	1,849	8	66	75	37	1,663	Je 1,713	Se 1,619	1,658	1,329	329	.....	.....	3,727,269
13 Dairymen's, poultrymen's, and apiarists' supplies.	14	617	9	38	74	51	445	De 480	My 418	485	419	66	.....	.....	2,330,302
14 Druggists' preparations	29	835	21	46	142	101	525	Mh 624	No 478	493	219	274	.....	.....	2,466,992
15 Dyeing and finishing textiles, exclusive of that done in textile mills.	6	367	.....	14	8	6	339	Se 373	Fe 300	377	316	61	.....	.....	2,108,425
16 Electrical machinery, apparatus, and supplies.	189	32,501	53	925	2,817	2,034	26,672	De 31,551	My 22,900	35,633	27,377	8,226	24	6	103,340,897
17 Electroplating	39	314	40	26	5	7	236	De 291	Fe 196	291	276	14	1	.....	274,591
18 Emery and other abrasive wheels	5	245	2	15	16	11	201	De 226	Ja 193	226	224	2	.....	.....	420,618
19 Engines, steam, gas, and water	44	7,554	9	265	782	280	6,218	Au 6,667	My 5,673	6,341	6,301	40	.....	.....	37,221,036
20 Engraving and diesinking	13	56	10	6	1	2	31	De 40	Mh 23	40	34	6	.....	.....	76,202
21 Engraving, steel and copper plate, including plate printing.	22	304	15	14	12	8	255	Jy 271	Fe 224	271	174	97	.....	.....	225,887
22 Engraving, wood	5	8	6	.....	.....	.....	2	(4) 2	(4) 2	2	2	.....	.....	.....	3,685
23 Envelopes	7	1,100	1	27	13	38	1,021	De 1,108	Ap [3] 969	1,118	413	705	.....	.....	2,340,930
24 Explosives	12	427	1	45	58	19	304	Ja 355	Je 251	317	316	1	.....	.....	4,349,334
25 Fertilizers	23	1,539	1	99	190	52	1,197	Se 2,185	De 870	1,312	1,302	10	.....	.....	11,649,854
26 Flags and banners	11	153	10	10	9	1	123	Je 144	Mh 111	120	42	77	1	.....	272,317
27 Flavoring extracts	44	529	42	35	88	39	325	Je 410	Mh 285	322	222	98	.....	2	2,819,208
28 Flour-mill and gristmill products	577	3,563	717	313	228	183	2,122	Se 2,281	Fe 1,937	2,335	2,318	13	2	2	32,284,802
29 Food preparations, not elsewhere specified.	98	2,950	85	130	662	216	1,857	Au 2,133	Mh 1,580	1,930	1,474	443	8	5	19,405,119
30 Foundry and machine-shop products.	1,000	84,753	501	3,538	5,666	2,761	72,227	.....	.....	79,985	78,008	1,846	128	3	297,222,356
31 Boiler shops	51	3,156	32	135	361	111	2,517	Ja 3,108	My 2,266	2,831	2,825	6	.....	.....	19,570,080
32 Foundries	152	21,325	86	760	659	340	19,480	De 23,525	My 17,134	23,420	22,847	465	108	.....	45,307,999
33 Machine shops	703	43,914	423	1,975	3,571	1,749	36,196	Ja 39,574	Je 34,347	38,571	37,528	1,025	15	3	168,984,006
34 Machine shop and foundry combined.	94	16,358	20	668	1,075	561	14,034	De 15,056	Je 13,229	15,163	14,808	350	5	.....	63,360,271
35 Foundry supplies	28	353	7	54	43	36	213	No 271	Mh 181	263	259	4	.....	.....	1,652,556
36 Fur goods	36	287	38	18	6	18	207	No 278	Mh 159	263	87	176	.....	.....	663,500
37 Furnishing goods, men's	12	444	9	30	89	24	292	De 342	My 266	349	46	303	.....	.....	898,468
38 Furniture	162	9,723	92	404	511	370	8,346	.....	.....	9,401	8,642	704	55	.....	25,896,058
39 Wood furniture, other than rattan and willow.	116	5,601	72	225	237	134	4,933	De 5,609	Ja 4,157	5,469	5,091	354	24	.....	13,959,241
40 Rattan and willow furniture	5	299	4	16	14	5	260	No 318	Ja 204	316	215	70	31	.....	431,427
41 Metal furniture	11	1,690	.....	91	161	155	1,292	De 1,583	Je 1,032	1,533	1,524	59	.....	.....	6,086,589
42 Store and office fixtures	30	2,124	16	72	99	76	1,861	De 2,032	Ja 1,769	2,033	1,812	221	.....	.....	5,418,801
43 Gas and electric fixtures	35	1,012	27	56	53	37	839	.....	.....	962	606	340	16	.....	2,985,896
44 Gas fixtures	12	445	5	25	11	12	392	Oc 433	Jy 363	401	154	240	7	.....	1,087,124
45 All other	23	567	22	31	42	25	447	No 563	Fe 360	561	452	100	9	.....	1,898,772
46 Gas, illuminating and heating	15	221	.....	31	12	16	162	Ja 175	De 152	154	153	1	.....	.....	6,500,838
47 Gas machines and gas and water meters.	14	335	3	42	49	30	211	Ja 237	My 178	202	200	2	.....	.....	1,393,005
48 Glass	44	11,761	.....	297	305	224	10,935	De 12,085	Jy 9,077	13,346	11,376	1,916	44	10	27,690,039
49 Glass, cutting, staining, and ornamenting.	37	664	26	49	26	31	532	De 655	Ja 430	656	402	251	.....	3	988,143
50 Gloves and mittens, cloth, not including gloves made in textile mills.	35	2,328	22	60	33	51	2,162	Ja 2,745	My 1,733	2,635	317	2,221	27	70	4,384,678
51 Grease and tallow, not including lubricating greases.	54	896	44	68	53	20	711	.....	.....	713	706	7	.....	.....	4,147,277
52 Soap stock	24	410	19	28	12	5	346	Mh 365	No 318	349	345	4	.....	.....	1,500,507
53 All other	30	486	25	40	41	15	365	Au 402	Je 334	364	361	3	.....	.....	2,646,770
54 Grindstones	17	574	5	23	10	7	529	Ap 613	De 446	453	449	4	.....	.....	1,843,285
55 Hair work	11	48	12	2	.....	2	32	Fe [3] 34	No [3] 29	34	6	28	.....	.....	20,539
56 Hand stamps	23	148	24	17	10	14	83	De [3] 93	Ja 69	94	84	6	4	.....	197,241
57 Hardware	50	5,047	23	142	145	161	4,576	.....	.....	4,834	4,089	734	11	.....	11,160,691
58 Locks	7	39	4	9	1	2	23	No 32	My 14	33	31	2	.....	.....	97,540
59 Builders' hardware	10	551	4	16	33	28	470	No 508	Se 441	507	418	89	.....	.....	1,906,848
60 All other	33	4,457	15	117	111	131	4,083	Au 4,427	Ja 3,699	4,294	3,640	643	11	.....	9,156,303
61 Hats and caps, other than felt, straw, and wool.	31	639	38	34	52	23	492	De 574	Ap 376	587	229	344	.....	14	1,197,751
62 House-furnishing goods, not elsewhere specified.	29	459	18	28	42	31	340	Jy 377	Ja 300	346	173	171	2	.....	1,375,056
63 Ice, manufactured	141	2,544	85	215	87	205	1,952	Jy 2,959	Ja [3] 1,148	2,176	2,143	33	.....	.....	16,990,167
64 Ink, printing	8	532	.....	19	67	49	397	No 462	Ap 345	457	428	29	.....	.....	2,799,717
65 Instruments, professional and scientific.	20	718	11	50	22	34	601	Jy 693	Ja 501	648	332	313	3	.....	1,062,549
66 Iron and steel, blast furnaces	42	11,055	.....	311	747	204	9,793	Ja 12,137	Oc 6,105	11,211	11,203	8	.....	.....	162,007,954
67 Iron and steel, steel works and rolling mills.	86	86,494	3	1,395	4,618	1,453	73,025	Ja 85,394	Oc 41,747	82,078	81,667	1,010	1	.....	511,271,910
68 Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	23	5,274	9	130	207	150	4,778	Ja 5,334	Oc 3,975	4,976	4,030	915	26	5	19,059,171

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

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						Electric horsepower generated in establishments reporting.
											Owned.					
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars*							
211,077	44,872	1,046,539	33,490	23,042	525,693	5,184,305	204,960	9,494,586	4,105,321	4,899	2,387	.....	30	.....	2,482	1,606
432,027	1,413,224	933,690	.....	67,675	271,290	22,796,144	80,757	29,271,332	6,394,431	3,105	160	.....	423	.....	2,522	546
154,324	229,973	1,182,354	100	4,374	415,307	2,784,435	55,324	6,474,900	3,635,141	1,983	1,102	.....	290	.....	591	1,259
425,411	498,458	6,559,347	1,450	72	940,762	2,783,735	30,388,211	46,514,213	13,342,267	43,119	16,067	12,600	870	.....	13,582	24,039
127,316	58,740	708,177	12,577	5,293	119,206	13,925,447	237,503	17,197,564	3,034,614	2,486	1,826	3	202	.....	365	891
1,340,734	1,185,763	4,571,129	4,829	344,820	1,805,337	21,312,276	509,503	39,185,084	17,363,305	14,385	1,964	.....	1,681	.....	10,740	978
1,003,164	934,989	2,936,890	720	279,769	1,492,762	13,587,711	217,449	25,146,428	11,341,268	5,010	1,097	.....	229	.....	3,684	726
346,570	250,774	1,584,239	4,109	65,051	312,575	7,724,565	202,054	14,038,656	6,022,037	9,375	867	.....	1,452	.....	7,056	252
113,036	44,495	790,284	8,250	17,682	44,324	3,347,874	37,888	4,882,780	1,497,018	2,043	1,650	.....	37	.....	356	58
747,556	353,609	2,916,330	9,106	99,564	295,983	8,398,148	91,321	15,809,262	7,319,793	3,105	75	.....	845	.....	2,185	218
45,280	94,481	99,926	.....	22,938	55,170	1,398,842	4,206	2,090,198	687,150	89	.....	.....	2	.....	87	.....
191,345	171,731	1,612,611	.....	8,318	151,492	877,944	82,615	4,254,814	3,294,255	3,320	925	.....	735	.....	1,060	225
112,139	125,081	429,507	1,400	5,672	77,127	2,042,730	13,578	3,471,313	1,415,005	696	505	.....	72	.....	119	164
148,943	359,605	395,284	.....	10,248	56,440	1,773,505	15,999	3,941,307	2,151,803	422	135	.....	7	.....	280	14
37,744	31,666	383,650	.....	5,118	16,494	661,524	82,878	1,513,609	769,206	3,551	3,400	.....	.....	.....	151	511
3,690,316	5,779,063	30,652,032	38,738	373,956	8,177,807	70,633,187	1,664,020	156,924,143	84,626,936	42,753	4,533	8	2,068	.....	36,144	14,150
53,886	7,724	325,822	4,232	26,205	1,829	136,178	22,820	717,924	558,926	834	.....	.....	195	.....	639	.....
49,276	45,035	135,802	.....	1,360	57,072	275,731	28,674	828,801	524,396	378	135	.....	6	.....	237	25
1,012,009	1,377,454	8,032,602	1,246	31,053	1,960,944	19,988,093	355,688	42,850,677	22,506,895	12,961	4,455	81	2,762	.....	5,603	8,954
9,400	1,720	40,375	.....	4,118	338	18,177	889	118,025	98,959	58	.....	.....	.....	.....	58	.....
49,718	26,172	313,953	3,102	18,848	12,462	173,905	4,936	825,800	646,959	103	.....	.....	.....	.....	103	.....
.....	.....	2,024	192	663	53	4,728	12	15,912	11,172	.....	.....	.....	.....	.....	.....	.....
170,999	50,436	879,539	.....	318,173	130,667	3,846,974	30,844	5,892,541	2,014,723	1,106	340	.....	230	.....	536	220
191,002	116,191	417,024	.....	2,905	170,728	1,387,511	86,151	2,790,301	1,316,039	4,086	2,077	500	.....	.....	1,509	1,676
299,365	318,067	1,500,901	6,910	7,859	486,137	7,909,525	161,718	14,042,055	5,970,812	7,179	3,399	.....	132	386	3,262	747
30,444	12,627	80,713	500	4,904	13,361	218,506	3,092	432,522	210,924	248	100	.....	.....	50	98	.....
153,392	231,618	346,677	.....	41,941	114,058	4,775,051	24,935	6,596,338	1,796,352	419	133	.....	19	.....	267	.....
926,752	453,835	2,439,116	1,800	22,811	731,557	76,334,609	767,472	89,396,619	12,294,538	47,830	22,493	75	10,737	6,211	8,314	1,236
671,865	1,184,447	2,105,794	277	42,372	1,497,882	37,167,823	246,221	46,340,447	8,926,403	10,256	2,393	6,133	381	.....	1,340	5,508
13,769,091	12,067,471	95,261,522	537,968	605,353	14,605,567	139,362,319	7,935,946	347,635,394	200,337,129	170,872	42,419	2,219	12,267	332	113,635	59,310
581,775	773,345	3,262,791	9,270	24,507	554,139	9,389,300	427,116	16,655,001	6,838,585	10,220	5,793	720	405	.....	3,302	9,464
2,975,336	1,394,249	27,174,013	46,412	55,848	2,113,646	24,413,416	2,944,461	70,792,433	43,434,556	37,905	5,986	52	2,290	.....	29,577	6,843
7,732,483	7,462,167	46,750,259	473,644	474,412	9,583,255	81,636,487	2,971,978	197,202,913	112,504,448	89,287	19,653	1,337	7,542	302	60,453	24,143
2,479,497	2,437,710	18,074,459	8,642	50,586	2,354,527	23,923,116	1,592,391	62,985,047	37,469,540	38,460	10,987	110	2,030	30	20,303	18,860
182,429	99,303	234,169	23,694	11,884	46,608	1,017,293	45,221	3,259,085	1,296,571	2,008	477	.....	120	.....	1,411	293
50,077	27,214	252,936	303	40,895	7,804	575,718	3,085	1,201,147	622,344	236	.....	.....	.....	.....	236	.....
93,339	185,207	227,862	14,362	16,169	25,504	1,394,756	4,622	2,184,979	785,601	59	.....	.....	20	.....	39	42
1,470,363	1,109,885	8,518,618	37,737	163,559	991,738	14,200,097	379,446	35,224,313	20,044,770	16,870	10,353	163	770	.....	5,584	5,744
847,657	543,021	5,007,936	6,611	95,444	367,417	8,160,666	220,610	19,441,448	11,060,172	11,241	6,433	163	420	.....	4,216	1,713
40,905	16,375	218,794	188	8,944	17,112	463,541	10,646	1,081,444	607,257	192	.....	.....	89	.....	103	.....
324,219	344,886	1,582,952	5,569	28,785	251,855	2,901,408	70,047	7,564,902	4,593,447	1,367	775	.....	10	.....	582	1,353
257,582	205,603	1,708,936	25,369	30,386	355,354	2,674,482	78,143	7,136,519	4,383,894	4,070	3,145	.....	242	.....	683	2,678
149,261	221,102	717,819	2,998	14,630	28,699	1,099,898	42,058	3,365,205	1,623,249	952	170	.....	120	.....	662	100
54,845	35,358	219,455	1,498	3,610	11,279	704,770	13,848	1,201,492	482,874	399	35	.....	50	.....	314	.....
94,416	185,744	498,364	1,500	11,020	17,420	995,128	28,210	2,163,713	1,140,375	553	135	.....	70	.....	348	100
47,475	27,576	225,483	1,416	1,692	85,618	82,978	274,820	887,208	529,500	822	707	.....	110	.....	5	.....
154,039	121,472	288,207	1,517	10,570	117,500	1,026,600	8,786	1,934,405	899,019	750	.....	.....	546	.....	204	312
1,092,229	763,239	12,111,911	31,279	95,968	1,147,955	8,984,050	3,068,347	35,240,877	22,588,480	37,831	19,165	6,750	3,325	5	8,586	23,797
119,902	65,227	471,823	344	26,350	46,681	1,384,405	15,868	2,506,134	1,165,861	405	50	.....	39	.....	316	.....
201,944	98,216	1,151,938	8,195	22,179	225,980	4,868,998	40,082	7,567,764	2,658,684	839	.....	.....	51	.....	738	.....
155,488	72,963	859,525	4,985	4,636	92,097	3,425,817	367,203	5,638,572	1,845,552	4,424	2,568	12	118	.....	1,726	453
77,291	33,775	406,603	2,080	725	61,945	1,040,593	177,503	2,076,609	858,513	1,979	1,109	.....	93	.....	777	82
78,197	39,188	452,922	2,905	3,911	30,152	2,385,224	189,700	3,561,963	987,039	2,445	1,459	12	25	.....	949	371
65,307	20,801	476,705	.....	1,752	32,261	147,791	51,851	1,090,317	800,675	2,950	1,938	.....	368	.....	644	170
3,785	1,551	19,359	3,747	5,270	147	17,487	167	78,742	61,088	2	.....	.....	.....	.....	2	.....
46,613	24,854	87,009	.....	17,025	2,811	123,740	2,984	410,264	283,540	87	.....	.....	.....	.....	87	.....
617,882	515,850	4,819,457	28,844	31,451	574,159	6,930,772	591,192	16,694,357	9,172,393	7,818	1,833	.....	340	80	5,565	857
17,105	2,020	32,383	.....	5,645	755	124,578	1,177	252,410	126,655	70	.....	.....	65	.....	5	.....
50,040	77,714	451,908	.....	6,140	77,055	1,160,049	25,677	2,306,553	1,120,827	1,624	700	.....	50	80	794	234
550,717	436,116	4,335,166	28,844	19,666	496,349	5,646,145	564,338	14,135,394	7,924,911	6,124	1,133	.....	225	.....	4,766	623
110,255	131,620	471,137	371	34,642	14,026	1,660,693	6,284	2,916,457	1,249,480	92	.....	.....	.....	.....	92	.....
103,305	79,464	245,491	4,327	11,413	41,793	1,405,683	21,314	2,165,366	738,369	793	620	.....	.....	.....	173	5
516,857	237,438	2,617,976	3,800	14,067	272,991	1,394,055	1,504,006	10,208,061	7,310,000	34,930	26,474	795	841	.....	6,820	1,019
79,499	220,017	515,197	.....	4,995	195,034	3,511,412	62,916	5,514,817	1,940,489	2,184	1,460	.....	370	.....	354	1,170
131,497	44,847	534,326	350	16,358	59,452	321,734	16,561	1,423,501	1,085,206	415	100	.....	25	.....	290	75
1,292,048	1,614,880	20,223,931	112,954	481	3,552,844	88,780,004	43,906,103	179,233,435	41,547,328	359,224	222,164	70,494	38,555	.....	28,011	48,283
6,504,749	9,988,611	137,281,312	2,201,860	8,660	17,895,874	352,138,966	28,920,707	626,370,025	245,310,352	865,036	523,304	144,518	20,651	.....	171,563	285,988
850,777	606,488	6,020,081	2,037	94,419	1,266,172	9,825,714	523,584	23,451,461	13,102,163	11,053	2,796	.....	370	.....	7,887	2,826

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

TABLE 46.—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— Maximum month.	Number, 15th day of— Minimum month.		Male.	Female.	Male.	Female.	
	THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
																Dollars.
1	Iron and steel, forgings, not made in steel works or rolling mills.	38	6,676	5	189	358	193	5,931	Ja 6,563	Se 5,701	6,017	5,992	24	1	.....	23,945,063
2	Iron and steel, tempering and welding	47	239	59	23	8	9	140	De 170	Ja 103	171	166	5	.....	.....	449,047
3	Iron and steel, wrought pipe	8	4,937	.....	59	298	146	4,434	Au 4,970	Oc 3,415	4,546	4,495	51	.....	.....	39,309,921
4	Jewelry	52	868	67	29	50	64	658	De 829	Se 531	818	535	276	7	.....	1,716,788
5	Knit goods	34	4,824	13	128	158	118	4,407	De 5,149	Fe 3,586	5,122	1,008	4,060	31	23	13,504,745
6	Labels and tags	9	276	2	26	7	13	228	No 257	Ja 179	249	131	118	.....	.....	864,341
7	Lamps and reflectors	14	1,234	3	42	55	39	1,095	Au 1,307	Ja 777	1,303	1,206	97	.....	.....	3,906,616
8	Leather goods, not elsewhere specified	13	187	11	15	14	11	136	De 159	Ja 113	151	80	70	.....	1	470,039
9	Leather, tanned, curried, and finished	24	1,738	17	80	44	32	1,565	Oc 1,791	Ja 1,363	1,733	1,702	31	.....	.....	26,995,409
10	Lime	30	1,365	13	68	59	34	1,191	Au 1,315	Fe 958	1,197	1,196	1	.....	.....	6,040,374
11	Liquors, malt	73	4,039	9	282	343	78	3,327	Jy 3,935	De 2,776	2,814	2,787	27	.....	.....	47,005,389
12	Lithographing	28	2,312	10	109	126	128	1,939	No 2,103	Ja 1,764	2,091	1,715	374	2	.....	8,364,037
13	Looking-glass and picture frames	18	609	10	25	31	24	519	No 569	Ja 455	530	410	120	.....	.....	1,503,309
14	Lubricating greases	8	214	2	19	88	35	70	Oc [3] 74	Mh 65	78	76	1	1	.....	1,208,720
15	Lumber and timber products	514	4,039	653	149	54	43	3,136	De 3,543	Ja 2,850	4,129	4,109	14	6	.....	6,697,051
16	Lumber, planing-mill products, not including planing mills connected with sawmills.	378	5,862	288	472	390	217	4,495	De 5,021	Ja 3,736	5,497	5,439	56	2	.....	21,702,984
17	Machine tools	102	16,112	29	663	1,038	527	13,855	De 15,305	My 12,911	15,333	15,064	260	9	.....	56,626,865
18	Marble and stone work, except slate	191	1,987	196	117	122	48	1,504	.....	.....	1,553	1,550	1	2	.....	7,512,160
19	Monuments and tombstones	143	739	161	60	60	21	437	Au 468	Ja 356	465	462	1	2	.....	2,106,960
20	Other marble and stone work, except slate.	48	1,248	35	57	62	27	1,067	Jy 1,185	Fe 861	1,088	1,088	.....	.....	.....	5,406,100
21	Mattresses and spring beds, not elsewhere specified.	40	712	22	64	39	34	553	Se 600	Ja 468	588	426	159	3	.....	2,515,818
22	Millinery and lace goods, not elsewhere specified.	41	1,245	52	69	46	45	1,033	.....	.....	1,102	268	813	3	18	1,598,158
23	Embroideries	7	192	5	10	8	6	163	Oc [3] 172	Fe [3] 150	167	46	120	1	.....	200,792
24	Trimmed hats and hat frames	20	908	27	50	34	30	767	Fe 877	Je 591	822	197	605	2	18	1,104,594
25	All other	14	145	20	9	4	9	103	Jy 113	Ja 87	113	25	88	.....	.....	202,772
26	Mineral and soda waters	217	1,343	247	106	71	52	867	.....	.....	844	788	25	30	1	4,419,267
27	Mineral and carbonated waters	200	1,239	235	91	68	42	803	Jy 1,066	Ja 569	778	733	14	30	1	3,694,133
28	All other	17	104	12	15	3	10	64	Oc 123	Ja 31	66	55	11	.....	.....	725,134
29	Minerals and earths, ground or otherwise treated.	44	2,193	6	107	69	51	1,960	Ja 2,223	My 1,795	1,968	1,968	.....	.....	.....	8,884,083
30	Mirrors, framed and unframed, not elsewhere specified.	10	288	7	15	12	11	243	De 285	My 218	301	240	61	.....	.....	438,850
31	Models and patterns, not including paper patterns.	138	1,525	168	91	39	35	1,192	De 1,533	Fe 890	1,539	1,529	7	3	.....	2,371,064
32	Motorcycles, bicycles, and parts	9	2,780	1	99	92	111	2,480	Ja 2,995	Je 2,224	2,747	2,492	255	.....	.....	8,447,379
33	Mucilage, paste, and other adhesives, not elsewhere specified.	12	89	6	15	8	7	53	Je 65	Se 46	60	33	27	.....	.....	216,246
34	Musical instruments, organs	6	75	10	10	.....	2	53	De 60	Mh 45	59	54	5	.....	.....	154,985
35	Musical instruments, pianos	10	902	.....	52	37	26	787	De 979	Ja 595	979	825	152	2	.....	3,054,456
36	Musical instruments, piano and organ materials.	6	1,048	1	22	31	14	980	De 1,113	Ja 768	1,117	931	186	.....	.....	2,813,705
37	Oil, linseed	3	357	.....	17	43	27	270	Ja 295	Au 248	250	246	4	.....	.....	3,822,151
38	Oil, not elsewhere specified	21	592	5	54	156	75	302	Ap 325	Mh 280	306	297	9	.....	.....	2,784,096
39	Optical goods	31	519	12	39	40	63	365	De [3] 377	Ja 346	378	300	72	6	.....	978,459
40	Paints	61	3,569	16	228	788	340	2,197	No 2,379	Ja 1,930	2,349	2,098	251	.....	.....	23,193,526
41	Paper and wood pulp	49	7,563	1	269	210	184	6,899	No 7,464	Ap 6,306	7,447	6,468	972	4	3	74,498,111
42	Paper goods, not elsewhere specified	22	2,014	7	64	119	69	1,755	No 1,800	Ap 1,716	1,815	1,139	676	.....	.....	9,153,644
43	Patent medicines and compounds	202	1,705	128	171	309	208	889	.....	.....	1,036	512	520	2	2	6,534,040
44	Patent and proprietary medicines	144	1,307	86	126	239	158	698	No 807	Je 650	824	372	448	2	2	4,904,519
45	Patent and proprietary compounds, not elsewhere specified.	58	398	42	45	70	50	191	De 236	Jy 162	212	140	72	.....	.....	1,629,521
46	Paving materials	77	1,212	60	99	70	17	936	Au 1,313	Fe 591	1,226	1,226	.....	.....	.....	4,872,743
47	Perfumery and cosmetics	36	657	30	62	126	158	281	No 364	Ja 196	367	93	272	1	1	1,778,353
48	Petroleum, refining	11	4,890	.....	70	2,044	345	2,431	Au 2,556	Ap 2,331	2,400	2,372	28	.....	.....	46,545,550
49	Phonographs and graphophones	20	1,656	5	46	55	126	1,424	De 1,885	Ja 908	1,889	1,640	243	2	4	3,492,734
50	Photographic materials	12	238	3	19	15	16	185	Ja 224	Au 163	182	82	92	8	.....	380,244
51	Photo-engraving	30	578	11	62	48	40	417	Se 453	Ja 348	455	428	14	12	1	687,598
52	Pickles, preserves, and sauces	37	1,565	25	59	67	39	1,375	.....	.....	1,416	557	852	.....	7	6,599,462
53	Preserves	14	815	11	32	36	17	719	Je 924	Ja 524	786	236	550	.....	.....	2,807,822
54	Pickles and sauces	23	750	14	27	31	22	656	Se 1,225	My 481	630	321	302	.....	7	3,791,640
55	Plumbers' supplies, not elsewhere specified.	48	2,228	15	135	110	71	1,897	De 2,244	Mh 1,567	2,240	2,094	143	3	.....	5,785,918
56	Pottery	95	12,246	25	410	245	227	11,339	.....	.....	12,050	8,506	3,501	22	21	21,576,324
57	Chinaware	59	10,461	7	331	201	190	9,732	No 10,426	Fe 9,011	10,410	7,240	3,152	11	7	18,055,257
58	All other	36	1,785	18	79	44	37	1,607	Fe [3] 1,687	Se 1,517	1,640	1,266	349	11	14	3,521,067
59	Poultry, killing and dressing, not done in slaughtering or meat-packing establishments.	13	142	13	9	7	8	105	Oc 159	Ap 76	153	107	46	.....	.....	405,443
60	Printing and publishing, book and job.	871	11,213	709	695	597	707	8,505	.....	.....	9,364	6,466	2,829	62	7	25,482,824
61	Job printing	808	10,335	668	624	483	572	7,988	De 8,767	Ja 7,376	8,762	6,062	2,633	60	7	22,933,087
62	Book publishing and printing	9	447	5	19	23	31	369	No 422	Ja 333	423	241	181	1	.....	1,494,859
63	Book publishing without printing.	30	237	17	30	37	99	4	Fe 10	De [3] 3	13	12	1	.....	.....	641,345
64	Linotype work and typesetting	24	194	19	22	4	5	144	De 166	Ja 124	166	151	14	1	.....	412,633
65	Printing and publishing, music	11	84	9	12	34	15	14	Jy 16	Ja 12	11	9	2	.....	.....	423,634
66	Printing and publishing, newspapers and periodicals.	794	13,708	586	790	2,403	2,302	7,627	.....	.....	8,114	6,667	1,368	72	7	37,353,788
67	Printing and publishing	91	6,085	36	235	1,676	693	3,445	No 3,595	Fe 3,272	3,582	3,288	270	24	.....	17,642,121
68	Printing, publishing, and job printing.	507	7,057	465	421	612	1,382	4,177	De 4,494	Ja 3,961	4,526	3,374	1,097	48	7	18,931,414
69	Publishing without printing	196	566	85	134	115	227	5	De [3] 6	Je [3] 4	6	5	1	.....	.....	780,253

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

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						Electric horsepower generated in establishments reporting.
											Owned.					
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
898,509	686,476	7,622,833	.....	71,400	3,003,951	16,581,154	2,104,855	39,563,464	20,877,455	21,030	2,580	625	670	.....	17,155	4,237
69,402	16,267	222,852	5,044	17,940	34,532	172,996	36,287	755,415	546,132	491	.....	.....	9	.....	482	50
372,417	683,388	7,209,734	.....	.....	1,911,364	23,004,172	725,748	37,968,236	14,238,316	10,289	4,635	800	.....	.....	4,854	11,071
95,267	175,452	618,936	18,625	40,529	24,615	1,754,196	15,236	3,349,547	1,580,115	297	.....	.....	.....	.....	297	.....
903,914	572,309	3,032,899	14,393	116,651	992,989	10,990,123	89,117	18,778,844	7,699,604	2,688	1,165	.....	85	.....	1,438	5,853
73,834	34,100	216,443	1,724	9,946	10,829	540,314	10,142	1,156,023	605,567	244	.....	.....	.....	.....	244	.....
211,477	174,287	1,547,742	765	5,254	151,099	4,087,891	81,810	7,186,768	3,017,067	3,061	250	.....	43	.....	2,768	32
40,578	18,246	104,387	1,000	8,469	8,111	607,059	4,359	992,124	380,706	156	.....	.....	8	.....	148	.....
342,072	139,647	2,171,888	.....	4,005	550,846	18,624,763	193,028	25,008,070	6,190,279	5,063	2,612	667	170	.....	1,614	1,972
182,774	125,265	1,261,037	4,008	178	146,550	954,878	746,122	4,021,106	2,320,108	9,175	2,015	807	775	.....	5,578	1,109
1,106,783	675,199	4,453,390	3,074	7,225	3,875,969	5,803,560	1,292,012	25,161,227	18,065,655	35,024	30,495	2,275	253	.....	2,901	6,404
475,937	405,324	2,007,817	45,482	46,770	147,450	3,491,174	52,583	9,150,614	5,606,857	2,720	995	.....	285	.....	1,440	1,539
66,736	91,618	462,248	.....	13,444	41,330	834,740	17,219	2,050,220	1,198,261	663	225	.....	.....	.....	438	.....
80,274	273,499	81,549	.....	1,904	36,580	904,870	10,442	2,029,520	1,114,217	232	100	.....	19	.....	113	.....
348,603	111,336	3,048,798	182,341	16,224	99,077	5,115,721	79,982	12,031,472	6,835,769	20,809	17,901	279	533	85	2,011	135
1,093,057	650,105	5,213,136	58,985	135,003	435,391	19,990,630	361,513	32,428,847	12,076,704	28,302	10,268	200	3,380	35	14,410	1,501
2,511,242	2,028,768	17,071,620	406,294	119,528	6,294,723	16,731,367	745,408	62,554,169	45,077,334	25,255	4,649	1,635	915	.....	18,056	9,309
322,089	240,516	1,912,274	42,141	40,519	90,903	2,362,889	154,864	7,201,876	4,684,123	8,179	3,137	.....	1,517	.....	3,525	2,499
146,654	106,676	645,440	12,025	19,416	25,183	1,289,671	40,313	3,158,652	1,826,668	2,690	116	.....	1,114	.....	1,460	.....
175,435	133,840	1,266,834	30,116	21,103	65,720	1,073,218	114,551	4,045,224	2,857,455	5,489	3,021	.....	403	.....	2,065	2,499
188,832	102,556	564,728	.....	35,742	53,802	2,559,285	35,735	4,199,164	1,604,144	1,054	2	.....	180	.....	872	39
190,766	103,517	792,048	260	54,633	90,823	1,874,004	19,214	3,632,168	1,738,950	464	85	.....	.....	.....	379	70
25,555	7,205	145,556	.....	11,877	1,525	152,922	2,647	474,856	319,287	41	.....	.....	.....	.....	41	.....
151,825	80,547	580,111	260	33,869	88,406	1,560,186	14,145	2,797,140	1,222,809	389	85	.....	.....	.....	304	70
13,386	15,765	66,381	.....	8,887	892	160,896	2,422	360,172	196,854	34	.....	.....	.....	.....	34	.....
223,266	124,166	989,351	4,992	51,835	271,135	3,176,005	78,678	6,769,394	3,514,711	2,199	656	133	106	2	1,302	37
197,905	114,638	935,771	4,893	51,374	243,579	2,847,567	74,013	6,122,895	3,201,315	1,928	643	.....	84	2	1,199	37
25,361	9,528	53,580	99	461	27,556	328,438	4,665	646,499	313,396	271	13	133	22	.....	103	.....
334,071	179,994	2,348,263	.....	69,079	336,811	1,444,406	774,469	6,860,653	4,641,778	24,006	15,170	.....	688	28	8,120	36
60,587	51,151	148,250	.....	6,713	11,008	697,198	14,393	1,099,215	387,624	312	70	.....	36	.....	206	.....
329,122	64,204	1,914,688	6,648	58,164	121,256	1,632,508	71,215	5,459,746	3,756,023	6,731	4,500	125	250	.....	1,856	21
273,305	238,406	3,339,074	1,036	7,643	513,059	4,905,313	164,483	10,874,030	5,744,234	4,289	1,210	.....	60	.....	3,019	.....
42,657	15,606	43,892	.....	9,069	9,264	287,425	5,387	469,672	176,860	94	10	.....	8	1	75	.....
14,810	2,012	67,275	2,380	2,464	1,386	91,503	1,505	233,193	140,095	69	.....	.....	20	.....	49	.....
135,497	67,090	743,274	.....	43,742	63,078	1,940,773	19,126	3,475,543	1,515,644	935	600	.....	95	.....	240	207
102,014	61,551	1,029,368	.....	27,075	123,115	1,068,286	32,754	3,088,393	1,987,353	1,743	.....	.....	340	.....	1,403	.....
89,725	96,106	275,212	.....	612	105,992	7,696,538	64,214	9,368,779	1,608,027	1,516	850	.....	.....	.....	666	250
254,792	304,364	366,147	1,800	20,112	105,945	6,455,592	90,678	8,985,985	2,439,715	597	206	.....	25	.....	366	.....
108,926	100,108	370,945	.....	60,533	47,642	791,859	14,103	1,885,134	1,079,172	176	.....	.....	.....	.....	176	.....
1,091,126	1,432,871	2,315,325	24,052	60,091	1,200,986	23,360,149	237,619	36,848,364	13,250,506	8,187	1,520	.....	500	.....	6,167	1,242
1,320,891	684,671	8,094,230	12,506	7,644	2,112,475	32,762,877	2,047,471	55,098,196	19,387,848	64,420	47,723	11,579	30	2,105	2,983	25,227
433,929	227,308	1,627,664	.....	25,859	2,180,085	7,894,645	115,623	15,368,229	7,357,961	3,813	1,920	.....	47	.....	1,846	1,289
550,689	680,054	688,601	8,051	75,092	556,002	4,206,307	50,481	10,860,925	6,514,137	1,069	422	.....	14	1	632	261
401,241	486,802	503,849	7,085	54,747	483,302	3,099,535	23,791	7,941,142	4,817,816	699	250	.....	14	1	434	201
149,448	193,252	184,752	366	20,345	72,700	1,196,772	26,690	2,919,783	1,696,321	370	172	.....	.....	.....	198	60
222,309	103,950	896,304	1,338	14,740	76,472	770,843	269,906	2,951,533	1,910,784	23,303	16,827	.....	422	.....	6,054	271
179,050	277,721	213,129	.....	21,160	224,923	1,272,546	6,477	4,119,975	2,840,952	179	45	.....	.....	.....	134	.....
359,868	2,441,744	3,245,959	.....	330	3,819,640	29,997,014	1,961,063	43,282,801	11,324,724	7,383	4,175	1,170	155	.....	1,883	192
129,472	194,887	1,786,620	23,574	19,813	78,596	2,910,371	45,262	6,220,534	3,264,901	1,498	695	.....	25	.....	778	50
52,383	62,329	151,245	.....	11,308	17,007	254,812	7,966	677,958	415,180	116	.....	.....	25	.....	91	.....
170,319	121,908	646,869	38,264	36,998	16,162	261,184	15,918	1,813,310	1,536,208	280	.....	.....	35	.....	245	10
201,898	192,814	1,288,981	712	31,854	150,507	6,999,845	102,556	10,451,455	3,349,054	2,002	1,547	.....	71	.....	384	1,377
115,265	116,112	386,261	350	27,875	79,601	3,757,603	29,577	4,807,531	1,020,351	629	404	.....	30	.....	195	.....
86,633	76,702	902,720	362	3,979	79,906	3,242,242	72,979	5,643,924	2,328,703	1,373	1,143	.....	41	.....	189	1,377
465,899	354,068	2,023,624	21,027	82,933	96,569	3,551,405	134,208	8,083,340	4,397,727	2,893	525	.....	190	.....	2,178	161
1,222,746	820,230	11,558,318	78,193	25,640	886,527	6,731,173	2,281,268	28,675,361	19,662,920	10,131	6,695	135	614	.....	2,687	717
1,008,358	627,688	10,083,945	77,377	22,534	789,152	6,094,111	1,877,842	24,631,507	16,659,554	6,980	3,930	135	534	.....	2,381	605
214,388	192,542	1,474,473	816	3,106	97,375	637,062	403,426	4,043,854	3,003,366	3,151	2,765	.....	80	.....	306	112
16,471	10,420	111,929	.....	8,384	3,464	1,675,869	5,348	1,916,574	235,357	105	6	.....	.....	.....	99	.....
2,128,365	1,360,392	9,097,772	1,007,485	657,841	571,483	14,862,138	319,782	39,201,684	24,019,764	9,628	770	.....	812	1	8,045	382
1,932,930	1,166,779	8,535,053	279,671	608,472	541,811	13,512,447	293,908	35,128,676	21,322,321	8,857	735	.....	675	1	7,446	368
63,854	42,684	336,329	2,054	20,013	17,703	1,200,925	20,616	2,068,029	846,488	623	35	.....	137	.....	451	14
84,762	139,249	2,962	721,516	12,461	8,726	123,716	234	1,467,663	1,343,713	76	.....	.....	.....	.....	76	.....
46,819	11,680	223,428	4,244	16,895	3,243	25,050	5,024	537,316	507,242	72	.....	.....	.....	.....	72	.....
21,974	44,364	9,662	128,061	8,326	5,155	61,682	247	447,037	385,108	10	.....	.....	.....	.....	10	.....
2,427,824	4,834,362	9,411,413	2,270,258	358,946	1,933,940	18,039,722	402,303	58,567,435	40,125,410	13,961	2,050	48	1,010	23	10,830	2,088
1,091,168	2,745,401	5,196,709	604,043	190,841	1,398,719	10,446,740	168,225	31,937,610	21,322,645	6,831	75	42	78	10	6,626	5
1,084,733	1,735,257	4,212,365	237,826	126,891	516,043	7,420,463	233,442	23,520,203	15,866,298	7,121	1,975	6	932	13	4,195	2,083
251,923	353,704	2,339	1,428,389	41,214	19,178	172,519	636	3,109,622	2,936,467	9	.....	.....	.....	.....	9	.....

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

TABLE 46.—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	Printing materials	9	50	6	9	5	4	26	De [3] 28	Ja 21	28	28				153,731
2	Pumps, not including power pumps	20	1,552	17	76	138	56	1,265	De 1,408	My 1,203	1,405	1,353	7	45		4,585,535
3	Pumps, steam and other power	11	789	4	48	81	46	610			774	763	11			2,281,133
4	Steam pumps	5	282	3	17	12	8	242	Mh 261	Au 233	231	231				722,401
5	Other power pumps	6	507	1	31	69	38	368	De 543	Mh 199	543	532	11			1,558,732
6	Refrigerators	5	182	1	19	18	9	135	No 151	Ja 113	144	144				602,316
7	Regalia, and society badges and emblems.	10	1,115	4	27	116	74	894	Jy 942	Ja 791	943	370	571		2	3,067,044
8	Roofing materials	20	1,550	6	52	159	195	1,138	De 1,209	Ja 1,071	1,213	1,185	28			8,023,119
9	Rubber tires, tubes, and rubber goods, not elsewhere specified.	96	89,774	15	1,246	17,808	7,068	63,637	Oc 74,720	Ja 53,904	75,300	68,550	6,705	45		398,125,426
10	Saddlery and harness	106	1,052	112	44	77	20	799	De 897	My 675	906	831	74	1		4,100,027
11	Safes and vaults	18	2,225	4	38	210	102	1,821			2,078	2,035	43			8,329,723
12	Safes	10	1,923	2	70	172	81	1,598	De 1,855	Fe 1,411	1,855	1,823	32			7,303,072
13	Vaults	8	302	2	18	38	21	223	Mh 237	Se 213	223	212	11			1,026,651
14	Salt	5	591		26	16	14	535	Oc [3] 604	Ap 450	570	505	65			4,525,920
15	Sausage, not made in slaughtering and meat-packing establishments.	30	396	28	28	49	22	269			286	281	5			1,049,658
16	Suasage	20	244	18	18	31	10	167	De [3] 182	Ap [3] 157	181	181				754,195
17	Sausage casings	10	152	10	10	18	12	102	No 106	My 98	105	100	5			295,463
18	Saws	9	184	7	8	13	12	144	No 151	Au 130	145	144	1			1,208,126
19	Screws, machine	19	4,663	7	158	144	128	4,226	De 4,752	Ja 3,541	4,762	3,967	795			27,365,060
20	Shipbuilding, steel, new vessels and repair work.	9	11,566		62	205	107	11,192	Mh 12,081	De 9,279	10,407	10,388	19			51,177,363
21	Shipbuilding, wooden, including boat building.	19	269	20	20	2	7	220	Fe 335	No 90	250	248	2			645,264
22	Shirts	32	2,185	36	76	85	88	1,900	No 1,978	Jy 1,816	1,972	199	1,773			4,946,229
23	Show cases	13	331	6	26	19	7	273	De 338	Ja 203	338	326	11	1		997,042
24	Signs and advertising novelties	70	2,573	52	108	337	169	1,907			2,260	1,347	912	1		6,110,483
25	Electric and other signs	53	1,230	45	60	132	65	928	No 1,046	Ja 702	1,063	842	221			2,334,489
26	Advertising novelties	17	1,343	7	48	205	104	979	De 1,197	Fe 706	1,197	505	691	1		3,775,994
27	Slaughtering and meat packing	141	6,607	136	244	694	197	5,336	De 5,984	My 4,995	5,820	5,350	469	1		32,340,461
28	Smelting and refining, not from the ore.	7	128		23	4	13	88	De 100	Mh 68	100	100				1,334,475
29	Sporting and athletic goods	11	869	9	28	26	44	762	Au 790	Je 728	872	521	351			2,052,189
30	Stamped and enameled ware, not elsewhere specified.	49	4,285	6	183	120	142	3,834			4,164	3,225	932	7		13,932,664
31	Stamped ware	35	1,408	6	96	58	51	1,197	De 1,485	Mh 995	1,463	1,238	224	1		4,316,239
32	Enameled ware and bathtubs	14	2,877		87	62	91	2,637	Oc 2,880	Ja 2,392	2,701	1,987	708	6		9,616,425
33	Stationery goods, not elsewhere specified.	12	1,004	3	38	115	82	766	De 847	Ja 705	847	610	237			3,259,980
34	Statuary and art goods	10	147	10	11	2	8	116	Oc 134	Ja 86	114	110	4			322,177
35	Steam fittings and steam and hot-water heating apparatus.	29	3,307	11	106	289	178	2,723			3,110	3,028	81	1		9,734,260
36	Radiators and cast-iron heating boilers.	8	517	6	12	21	14	464	De 505	Fe 394	505	500	5			1,307,621
37	All other	21	2,790	5	94	268	164	2,259	De 2,556	My 2,074	2,605	2,528	76	1		8,426,639
38	Steam packing	8	87	5	10	7	6	59	Ja 76	De 50	50	41	9			164,829
39	Steel barrels, drums, and tanks, portable.	13	1,810	5	72	100	52	1,581	De 2,018	My 1,214	2,018	2,015	3			11,181,569
40	Stencils and brands	11	115	12	7	7	10	79	De 104	Ja 64	104	87	17			244,853
41	Stereotyping and electrotyping	17	570	10	24	31	17	488	De 537	Ja 422	523	520	3			708,798
42	Stoves and hot-air furnaces	67	7,204	25	310	502	298	6,069			6,596	6,418	177	1		20,050,361
43	Stoves and ranges, and fireless cookers.	39	5,345	8	212	287	186	4,652	De 5,099	Jy 4,044	4,882	4,709	172	1		13,448,764
44	Hot-air furnaces	28	1,859	17	98	215	112	1,417	De 1,725	Mh 1,069	1,714	1,709	5			6,601,587
45	Stoves, gas and oil	34	5,003	13	114	336	211	4,329	No 5,509	Ap 3,624	5,513	4,884	624	5		18,404,708
46	Structural ironwork, not made in steel works or rolling mills.	93	6,676	37	329	773	300	5,231	De 5,971	Ap 4,553	5,957	5,940	16	1		29,326,653
47	Sugar, beet	5	693		25	20	18	630	No 1,472	Fe 188	1,390	1,377	13			5,983,906
48	Surgical appliances	17	368	15	12	56	28	257	Ap 266	Jy 236	251	161	89	1		525,329
49	Suspenders, garters, and elastic woven goods.	7	309	4	14	14	16	261	Oc 287	Mh 240	281	40	240		1	786,997
50	Tinware, not elsewhere specified	14	3,119	4	48	330	129	2,608	Au 2,912	Ap 2,295	2,744	1,882	860	2		14,426,963
51	Tobacco, cigars and cigarettes	676	12,171	697	249	164	66	10,995	De 12,316	Au 10,529	12,469	2,908	9,541	2	18	13,879,731
52	Tools, not elsewhere specified	149	8,272	87	339	447	438	6,961			7,923	7,435	459	29		24,777,519
53	Shovels, spades, scoops, and hoes	6	470		16	13	14	427	Mh 467	Au 367	455	434	21			2,004,527
54	Carpenters' and machinists' tools	97	5,968	61	231	322	298	5,056	De 5,867	Ap 4,525	5,848	5,465	355	28		17,256,426
55	All other	46	1,834	26	92	112	126	1,478	No 1,635	Ap 1,338	1,620	1,536	83	1		5,516,566
56	Toys and games	59	1,778	37	113	48	55	1,525	No 2,051	Ja 1,007	2,052	1,017	1,014	15	6	3,250,688
57	Trunks and valises	22	399	26	29	21	17	306	Au 343	Ja 246	324	265	59			1,007,583
58	Typewriters and supplies	4	114	2	5	16	11	80	De 102	Ap 62	99	78	21			373,606
59	Umbrellas and canes	10	266	10	9	20	19	208	Jy 230	Ja 182	209	62	147			667,534
60	Varnishes	33	1,272	13	107	267	153	732	De 819	Ja 668	819	736	83	1		9,262,919
61	Vinegar and cider	18	49	22	2	2	2	21			45	42	3			253,692
62	Vinegar	4	27	6	2	2	2	15	Oc 36	Jy 10	24	24				224,945
63	Cider	14	22	16				6	Se 22	De 4	21	18	3			28,747
64	Wall plaster and composition flooring	16	884	4	43	100	48	689	Oc 891	Ja 410	837	835	2			2,904,782
65	Washing machines and clothes wringers.	15	562	4	32	29	20	477	De 638	Ja 342	625	624	1			1,388,575
66	Window and door screens and weather strips.	15	237	11	17	14	14	181	Ap 214	Ja 140	211	183	28			404,038
67	Wirework, including wire rope and cable, not elsewhere specified.	47	2,184	25	88	196	53	1,822			2,005	1,703	301	1		9,726,218
68	Woven wire fencing	7	113	1	12	3	11	86	Je 100	Oc 73	75	75				623,174
69	All other	40	2,071	24	76	193	42	1,736	Ja 1,952	Je 1,535	1,930	1,628	301	1		9,103,044

[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.						
											Owned.					
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	Electric horsepower generated in establishments reporting.
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
27,468	11,161	31,118	1,592	10,220	12,694	63,859	2,219	271,456	205,378	68	28	.....	.....	.....	40	.....
276,390	274,858	1,400,741	.....	22,350	144,566	2,670,598	96,190	7,392,564	4,625,776	2,127	783	.....	701	.....	643	796
272,546	126,489	681,666	.....	26,290	241,252	1,656,745	31,134	3,401,276	1,713,397	747	220	.....	130	.....	397	120
61,116	22,328	257,624	.....	8,670	55,355	350,167	13,635	971,878	608,076	330	220	.....	110	.....	.....	120
211,430	104,161	424,042	.....	17,620	185,897	1,306,578	17,499	2,429,398	1,105,321	417	.....	.....	20	.....	397	.....
38,008	31,879	143,734	.....	4,460	13,046	312,130	7,366	598,861	279,365	417	150	150	87	.....	30	75
133,181	233,208	732,321	.....	10,708	145,649	1,695,339	19,639	3,987,065	2,272,087	304	260	.....	10	.....	34	194
254,407	444,647	1,431,951	1,784	18,066	397,165	7,600,906	308,096	12,785,424	4,876,422	7,249	2,781	.....	205	.....	4,263	1,184
6,061,668	42,765,855	90,981,414	2,576,359	6,122,977	18,583,624	293,287,709	6,074,822	551,118,488	251,755,957	170,402	32,043	77,657	1,792	329	58,581	115,006
132,548	125,248	605,807	921	29,107	457,444	3,019,719	16,558	5,142,703	2,106,426	567	110	.....	24	.....	433	.....
403,134	298,540	1,907,103	43,428	26,138	633,583	3,335,165	105,180	9,477,847	6,037,502	2,704	1,190	.....	150	.....	1,364	515
356,212	260,635	1,697,336	43,428	25,418	585,434	2,528,439	93,220	7,907,804	5,286,145	2,247	1,190	.....	.....	.....	1,057	515
46,922	37,905	209,767	.....	720	48,149	806,726	11,960	1,570,043	751,357	457	.....	.....	150	.....	307	.....
139,147	46,275	675,207	.....	.....	109,421	932,947	447,442	2,667,780	1,287,391	8,259	6,930	950	5	.....	374	2,039
90,767	96,325	426,305	.....	8,303	68,026	4,160,569	36,575	5,354,530	1,157,386	1,279	155	.....	178	.....	946	.....
61,942	52,691	279,108	.....	3,257	61,793	2,979,424	23,142	3,765,020	762,454	867	140	.....	133	.....	594	.....
28,825	43,634	147,197	.....	5,046	6,233	1,181,145	13,433	1,589,510	394,932	412	15	.....	45	.....	352	.....
23,683	15,301	161,033	.....	7,500	6,751	302,858	8,647	639,634	328,129	562	.....	.....	80	.....	482	.....
615,545	357,590	5,042,791	19,565	8,073	2,000,475	5,087,541	221,292	16,599,431	11,290,598	10,504	1,775	.....	165	.....	8,564	1,828
762,639	614,644	19,424,226	.....	13,732	1,962,770	22,630,130	723,456	56,481,966	33,128,380	13,717	6,425	.....	15	.....	7,277	3,983
38,021	10,810	243,952	27,412	1,895	4,760	538,976	9,090	1,000,633	452,567	502	192	10	82	.....	218	.....
361,625	205,318	1,182,936	31,348	53,055	248,920	3,731,346	27,654	7,389,827	3,630,827	960	570	.....	16	.....	374	195
61,193	32,973	277,773	.....	9,019	20,845	543,531	13,598	1,177,123	619,994	804	345	.....	.....	.....	459	.....
321,065	630,372	1,604,695	16,224	56,925	194,409	3,096,138	70,748	7,903,625	4,736,739	2,161	1,010	.....	166	10	975	244
184,383	233,406	921,669	14,224	44,829	98,334	1,398,952	46,554	3,852,530	2,407,024	1,193	625	.....	134	10	424	210
136,682	396,966	683,026	2,000	12,096	96,075	1,697,186	24,194	4,051,095	2,329,715	968	385	.....	32	.....	551	34
977,566	1,234,264	6,689,371	42,347	76,861	926,334	149,656,670	941,769	170,337,892	19,739,453	19,926	10,760	356	591	.....	8,219	3,220
110,176	17,237	109,400	610	1,750	12,294	1,656,573	25,309	2,288,447	606,565	130	.....	.....	20	.....	110	10
98,579	85,921	662,114	9,400	6,784	28,820	1,178,006	20,023	2,853,786	1,655,757	590	140	.....	169	.....	281	36
762,648	358,275	3,963,044	4,183	41,268	525,600	6,944,482	428,048	15,466,161	8,093,631	5,459	1,250	.....	949	.....	3,200	647
340,922	130,543	1,308,179	328	35,665	141,581	2,535,564	65,211	5,316,327	2,715,552	2,031	400	.....	314	.....	1,317	.....
421,726	227,732	2,654,865	3,855	5,603	384,019	4,408,018	362,837	10,149,334	5,378,079	3,428	850	.....	635	.....	1,943	647
173,316	309,481	769,236	.....	19,336	106,821	2,129,541	32,168	4,645,865	2,484,156	754	150	.....	100	.....	504	164
27,055	15,738	120,469	.....	5,506	7,580	212,151	4,588	522,717	305,978	121	.....	.....	55	.....	66	28
676,270	443,302	3,228,981	9,988	20,911	1,620,104	3,714,281	234,816	11,852,034	7,902,937	5,206	1,915	50	16	.....	3,225	75
46,981	80,441	635,864	.....	7,990	28,696	911,666	65,671	1,883,227	905,890	1,123	275	.....	.....	.....	848	.....
629,289	362,861	2,593,117	9,988	12,921	1,591,408	2,802,615	169,145	9,968,807	6,997,047	4,083	1,640	50	16	.....	2,377	75
34,647	14,912	68,731	200	3,510	4,719	163,964	2,964	365,042	198,114	87	.....	.....	29	.....	58	.....
388,996	239,839	2,481,895	.....	13,998	668,431	9,560,773	141,515	14,552,704	4,850,416	6,624	1,100	.....	400	.....	5,124	400
19,612	13,084	95,027	700	9,316	2,339	72,548	1,612	303,980	229,820	80	.....	.....	.....	.....	80	.....
84,308	53,317	544,449	29,977	32,204	9,481	781,232	40,628	1,975,178	1,153,318	1,350	.....	.....	15	.....	1,335	.....
965,240	987,238	7,423,820	3,743	66,838	562,962	10,417,734	379,169	25,009,260	14,212,357	9,209	3,670	.....	1,436	.....	4,103	1,099
667,539	605,997	5,476,368	3,143	38,821	482,945	6,860,942	272,592	17,503,064	10,369,530	7,026	3,040	.....	1,225	.....	2,761	694
297,701	381,241	1,947,452	600	28,017	80,017	3,556,792	106,577	7,506,196	3,842,827	2,183	630	.....	211	.....	1,342	405
557,743	909,557	5,526,972	.....	17,484	1,659,275	10,615,451	215,528	23,578,213	12,747,234	3,856	1,179	.....	85	.....	2,502	658
1,405,075	2,035,231	7,491,621	85,336	40,774	1,084,948	24,369,218	401,714	41,792,720	17,021,788	21,998	5,141	.....	580	.....	16,277	3,825
90,179	47,881	1,126,648	5,601	.....	199,529	4,819,409	288,707	7,249,156	2,141,040	7,180	6,650	400	35	.....	95	1,555
37,850	35,271	190,678	.....	9,208	45,976	447,223	3,346	941,285	490,716	115	.....	.....	25	.....	90	.....
69,903	33,665	162,381	.....	6,328	20,529	764,724	7,139	1,413,755	641,892	153	20	.....	.....	.....	133	.....
269,919	488,376	2,459,035	174	12,289	717,126	10,593,994	93,533	16,980,629	6,293,102	2,082	1,050	150	398	.....	1,084	693
696,874	430,903	7,181,603	9,207	191,164	3,616,692	13,043,378	72,253	28,854,444	15,738,813	600	.....	.....	37	.....	650	1
1,172,163	1,161,131	9,817,506	64,523	125,669	2,937,488	10,326,788	409,017	32,527,373	21,791,568	12,916	2,350	.....	1,531	10	9,025	2,343
68,806	33,869	477,406	.....	1,160	318,454	1,052,002	45,021	2,490,292	1,393,269	1,817	250	.....	424	.....	1,143	.....
786,745	781,250	7,060,592	52,106	88,043	2,360,165	6,096,086	250,213	23,136,971	16,790,672	8,513	2,075	.....	117	10	6,311	1,738
316,612	346,012	2,279,508	12,417	36,466	258,869	3,178,700	113,783	6,900,110	3,607,627	2,586	25	.....	990	.....	1,571	605
268,883	93,644	1,224,877	6,116	26,030	77,875	1,849,681	68,314	4,715,614	2,797,619	2,246	830	.....	337	11	1,068	118
116,517	63,745	357,035	.....	26,100	19,735	796,074	7,525	1,636,384	832,785	223	125	.....	.....	.....	98	154
16,800	43,396	92,718	.....	10,900	8,451	315,520	4,134	714,978	395,324	45	.....	.....	.....	.....	45	.....
53,305	69,982	132,589	100	15,446	4,890	915,749	2,576	1,345,284	426,959	53	.....	.....	6	.....	47	.....
515,337	624,138	870,632	.....	7,715	222,918	8,606,309	102,774	13,629,446	4,920,363	2,263	565	.....	17	.....	1,681	673
4,867	5,146	23,609	257	1,429	1,893	204,709	2,593	331,065	123,763	420	220	.....	120	20	51	.....
4,867	5,146	19,548	200	1,390	1,599	135,604	1,324	289,011	102,083	131	60	.....	20	.....	51	.....
.....	.....	4,061	57	39	294	19,105	1,269	42,054	21,680	289	160	.....	109	20	.....	.....
124,364	198,460	908,448	.....	33,029	97,183	2,082,154	175,075	4,430,949	2,173,720	3,776	3,017	.....	90	.....	669	2,347
95,256	52,656	511,439	26,141	5,634	30,449	2,014,770	18,366	2,945,734	912,598	767	365	.....	45	.....	357	15
38,480	24,677	183,895	.....	8,910	5,035	342,493	7,120	747,001	397,388	447	160	.....	40	.....	247	.....
361,030	352,289	2,110,058	12,125	29,743	357,742	4,218,324	116,432	8,709,817	4,375,061	3,631	1,775	.....	358	.....	1,498	1,419
22,595	13,129	110,299	1,886	5,261	9,025	592,713	11,837	923,034	318,484	165	.....	.....	92	.....	73	40
339,335	339,160	1,999,759	10,239	24,482	348,717	3,625,611	104,595	7,786,783	4,056,577	3,466	1,775	.....	266	.....	1,425	1,379

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

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
1	Wood preserving	6	552	1	22	61	24	444	My 499	Ja 381	454	454				*Dollars.* 2,463,960
2	Wood, turned and carved	47	1,039	42	56	19	30	892	De 973	Je 806	965	918	47			2,417,611
3	Wooden goods, not elsewhere specified.	16	387	9	23	13	11	331	Au 376	Se 301	389	316	67	6		732,625
4	All other industries *	420	53,341	250	1,700	4,040	2,227	45,124								284,983,942

* All other industries embrace—

Airplanes, seaplanes, and airships, and parts	4	Bluing	4	Combs and hairpins, except those made from metal or rubber	1
Ammunition	3	Boot and shoe findings	6	Cordage and twine	7
Artists' materials	3	Canning and preserving, fish	1	Corsets	4
Asbestos products, textile-mill products, other than steam packing	2	Carriages and sleds, children's	5	Cotton goods	5
Babbitt metal and solder	4	Cars, electric-railroad, not including operations of railroad companies	3	Cotton lace	1
Bags, other than paper, not including bags made in textile mills	12	Cash registers and calculating machines	6	Cotton small wares	1
Baking powders and yeast	4	Charcoal, not including production in the lumber and wood distillation industries	2	Crucibles, glass house pots	3
Bells	2	Chewing gum	6	Dental goods	13
Belting and hose, rubber	1	Chocolate and cocoa products	2	Enameling	3
Belting and hose, other than leather and rubber	3	Clocks	6	Engravers' materials	2
Billiard tables and accessories	2	Clothing, horse	3	Fancy articles, not elsewhere specified	15
		Collars and cuffs, men's	1	Felt goods	2
				Ferroalloys	2
				Files	5
				Fire extinguishers, chemical	5
				Fireworks	4
				Furs, dressed	2
				Galvanizing	6
				Gloves and mittens, leather	2
				Glucose and starch	1
				Glue, other than fish	2
				Gold and silver, reducing and refining, not from the ore	4
				Hardware, saddlery	2
				Hats, fur-felt	3
				Hats, straw	2
				Hats, wool-felt	1
				Ink, writing	3
				Iron and steel, cast-iron pipe	6
				Iron and steel, doors and shutters	3
				Iron and steel, wire nails and spikes	3

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

1	**AKRON**—All industries	304	91,069	194	1,150	17,745	6,916	65,054	Oc 75,929	Ja 55,897	77,324	70,903	6,366	53	2	381,144,319
2	Artificial stone products	16	74	20	3	2		49	Je 76	Ja 14	52	52				191,657
3	Automobile repairing	4	58	2	3	4	1	48	Au 53	Ap 41	44	44				122,586
4	Bread and other bakery products	50	652	53	30	103	32	434	No 475	Ja 390	482	393	87	2		1,389,537
5	Brick and tile, terra-cotta, and fire-clay products.	8	555		22	18	8	507	Je [3] 573	De 313	409	409				2,501,661
6	Copper, tin, and sheet-iron work	14	189	15	18	4	7	145	Au 182	Fe 106	152	151	1			413,425
7	Foundry and machine-shop products	36	3,464	9	119	202	108	3,026	De 3,301	Se 2,263	3,300	3,258	42			13,040,311
8	Liquors, malt	3	218		9	20	4	185	Jy 251	Ja 151	153	150	3			1,768,835
9	Lumber, planing-mill products, not including planing mills connected with sawmills.	8	293	1	11	21	7	253	Au 277	Ja 218	243	236	7			1,557,997
10	Pottery, china, earthen, and stone ware.	5	395		9	12	9	365	Ja 411	De 300	323	231	92			959,956
11	Printing and publishing, book and job.	25	736	22	17	48	53	596	De 696	Ja 483	716	467	249			2,038,239
12	Printing and publishing, newspapers and periodicals.	8	303	4	4	55	29	211	Se 225	Fe 197	213	198	13	2		1,074,047
13	Rubber tires, tubes, and rubber goods, not elsewhere specified.	22	77,054	4	694	16,222	6,328	53,806	Oc 64,371	Ja 45,262	64,994	59,550	5,425	19		320,920,202
14	Signs, other than electric	5	20	4			1	15	Au [3] 21	Ja [3] 9	16	16				11,239
15	Stoves and hot-air furnaces	3	452		13	30	9	400	No 488	Mh 242	471	471				1,481,128
16	Tobacco, cigars	7	11	7				4	(4) 4	(4) 4	5	5				2,696
17	All other industries *	90	6,595	53	198	1,004	320	5,010			5,751	5,272	447	30	2	33,070,803

*All other industries embrace—

Automobile bodies and parts	5	Butter	3	Confectionery and ice cream	7
Automobiles	1	Carpets, rag	2	Cooperage, hogsheads and barrels	2
Awnings, tents, and sails	1	Carriages and wagons	1	Electrical machinery, apparatus, and supplies	2
Belting, leather	1	Cars and general shop construction and repairs by steam-railroad companies	1	Electroplating	1
Bookbinding and blank-book making	1	Cleansing and polishing preparations, metal polish	1	Engraving and diesinking	1
Boxes, set-up paper boxes	1	Coffee, roasting and grinding	2	Engraving, steel and copper plate, including plate printing	1
Brass and bronze products	1			Files	1
Brushes	1				
				Flavoring extracts	1
				Flour-mill and gristmill products	1
				Food preparations, not elsewhere specified	3
				Furniture, store and office fixtures	1
				Glass, cutting, staining, and ornamenting	2
				Grease and tallow, not including lubricating greases	2

1	**CANTON**—All industries	287	23,425	182	686	1,416	805	20,336	No 21,950	Oc 18,845	22,013	20,007	2,000	6		102,977,458
2	Agricultural implements	4	362		21	28	12	301	Mh 323	De 281	319	318	1			1,498,112
3	Automobile bodies and parts	4	29	3	1		2	23	Ap [3] 24	Au [3] 22	23	22	1			48,034
4	Automobile repairing	21	204	17	14	3	11	159	Mh 169	Ja 144	149	149				452,151
5	Bread and other bakery products	33	237	36	7	17	12	165	Au 173	Ja 158	200	160	40			506,554
6	Confectionery and ice cream	13	161	13	12	10	6	120	Je 137	Ja 94	125	56	68	1		365,218
7	Foundry and machine-shop products	27	1,776	9	83	90	69	1,525	De 1,807	Je 1,337	1,812	1,666	141	5		6,050,118
8	Iron and steel, steel works and rolling mills.	6	11,275		160	704	283	10,128	Au 11,150	Oc 7,728	11,116	10,658	458			54,570,386
9	Iron and steel, welding	3	8	4				4	Oc 5	Ja 3	5	5				33,175
10	Lumber, planing-mill products, not including planing mills connected with sawmills.	12	216	6	18	12	11	169	Oc 199	Fe 126	174	173	1			1,368,645

[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.				Rented.[2]	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]		
THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
102,724	125,829	504,152	.....	3,754	52,527	2,261,525	51,965	3,498,431	1,184,941	1,330	995	.....	.....	.....	335	307
168,368	44,040	873,859	10,000	7,096	133,209	1,901,542	28,973	3,721,708	1,791,193	4,610	2,723	.....	1,186	.....	701	86
48,955	33,873	263,796	113	4,351	22,703	683,135	12,566	1,303,378	607,677	1,017	458	.....	161	.....	398	50
6,974,706	8,937,826	51,672,189	2,958,444	351,091	20,528,693	221,303,971	5,163,816	374,888,568	148,420,781	104,458	51,498	4,906	1,837	90	46,127	39,557

Japanning	3	Oil and cake, cottonseed	1	Scales and balances	5	Wall paper, not made in paper mills	3
Jewelry and instrument cases	1	Oil, essential	1	Screws, wood	1	Waste	4
Lard, refined, not made in slaughtering and meat-packing establishments	1	Oilcloth and linoleum, floor	2	Sewing-machine cases	1	Watchcases	3
		Oilcloth, enameled	1	Sewing machines and attachments	3	Watches, watch movements	1
Lasts	5	Oleomargarine	5	Silk goods	1	Wheelbarrows	5
Lead, bar, pipe, and sheet	3	Ordnance and accessories	3	Smelting, lead	1	Windmills	1
Liquors, distilled	1	Paper patterns	1	Soap	28	Window shades and fixtures	12
Liquors, vinous	5	Peanuts, grading, roasting, cleaning, and shelling	2	Soda-water apparatus	2	Wire	5
Locomotives, not made by railroad companies	2			Springs, steel, automobile	7	Wool pulling	2
		Pens, fountain and stylographic	5	Sulphuric, nitric, and mixed acids	5	Wool scouring	1
Malt	1	Photographic apparatus	1	Tin plate and terneplate	3	Wool shoddy	3
Matches	3	Plated ware, hollow ware	1	Tobacco, chewing and smoking, and snuff	34	Woolen goods	10
Musical instruments and materials, not specified	11	Pocketbooks	2			Worsted goods	3
		Pulp, from fiber, other than wood	3	Type founding	3		
Needles, pins, and hooks and eyes	2	Rules, ivory and wood	1	Upholstering materials, excelsior	1		
		Sand-lime brick	1	Vault lights and ventilators	1		

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

6,928,553	42,378,127	94,778,911	46,550	6,319,758	17,865,096	307,966,348	6,405,246	558,902,067	244,590,473	174,812	30,020	79,807	3,214	.....	61,771	12,111	1
2,600	2,200	60,882	.....	1,724	2,030	71,212	2,212	172,147	98,723	96	.....	.....	24	.....	72	.....	2
6,299	4,528	69,746	.....	5,454	1,255	46,990	2,421	146,141	96,730	21	.....	.....	.....	.....	21	.....	3
101,022	168,554	528,520	300	49,931	44,743	2,672,891	58,509	4,212,196	1,480,796	483	21	.....	7	.....	455	.....	4
63,104	49,132	603,554	.....	510	50,408	204,897	353,021	1,589,606	1,031,688	2,598	2,385	.....	145	.....	68	595	5
54,239	12,716	189,062	295	13,411	12,385	390,825	2,962	779,982	386,195	68	.....	.....	.....	.....	68	.....	6
735,564	458,758	4,309,167	.....	16,384	255,970	4,887,096	306,478	14,624,783	9,431,209	11,031	675	.....	1,564	.....	8,792	1,332	7
122,557	36,567	263,529	.....	4,205	98,881	307,549	83,399	1,775,773	1,384,825	2,662	2,541	75	35	.....	10	1,095	8
107,707	48,488	406,857	.....	26,073	22,334	1,714,308	13,737	2,684,177	956,132	991	790	.....	140	.....	61	15	9
58,843	28,933	378,486	.....	.....	26,174	158,224	89,169	812,435	565,042	769	625	.....	86	.....	58	80	10
153,606	131,959	679,487	18,837	15,970	52,195	1,737,668	26,946	3,289,029	1,524,415	789	335	.....	137	.....	317	14	11
92,955	85,816	289,649	5,258	4,949	66,695	637,025	13,027	1,701,194	1,051,142	581	.....	42	.....	.....	539	.....	12
4,359,953	39,407,574	78,577,002	6,155	6,070,169	15,809,731	252,555,253	4,778,038	462,092,527	204,759,236	134,609	18,708	73,557	37	.....	42,307	2,572	13
2,600	5,522	27,082	1,481	2,603	2,717	17,257	170	69,209	51,782	.....	.....	.....	.....	.....	.....	.....	14
70,266	48,055	610,165	.....	1,104	32,200	567,418	57,688	1,814,480	1,189,374	1,105	175	.....	.....	.....	930	.....	15
.....	.....	4,200	.....	1,030	1,546	9,805	120	20,102	10,177	5	.....	.....	5	.....	.....	.....	16
997,238	1,889,325	7,781,523	14,224	106,241	1,385,832	41,987,930	617,349	63,178,286	20,573,007	19,004	3,765	6,133	1,033	.....	8,073	6,408	17

Hand stamps	2	Mattresses and spring beds, not elsewhere specified	2	Pickles, preserves, and sauces	2	Tools, not elsewhere specified	1
Ice, manufactured	1			Saddlery and harness	2	Varnishes	1
Ink, printing	1	Mineral and carbonated waters	5	Sausage, not made in slaughtering and meat-packing establishments	2	Wheelbarrows	1
Iron and steel, steel works and rolling mills	1	Models and patterns, not including paper patterns	3			Window and door screens	1
		Oilcloth and linoleum, floor	1	Slaughtering and meat packing	1	Window shades and fixtures	1
Iron and steel, welding	1	Optical goods	1	Sporting and athletic goods	1	Wirework, not elsewhere specified	1
Lamps	1	Paper and wood pulp	1	Steam packing	1	Wood, turned and carved	1
Marble and stone work, monuments and tombstones	1	Petroleum, refining	1	Structural ironwork, not made in steel works or rolling mills	3		
		Photo-engraving	1	Surgical appliances	1		

2,727,596	2,786,850	29,122,434	194,549	103,176	2,762,671	60,267,252	4,810,273	124,292,924	59,215,399	52,933	18,550	8,592	992	.....	24,799	19,223	1
65,965	46,078	371,044	.....	480	44,269	549,869	22,168	1,454,673	882,636	449	.....	.....	.....	.....	449	.....	2
2,506	848	28,604	.....	1,020	502	37,333	1,428	100,487	61,226	35	.....	.....	.....	.....	35	.....	3
39,450	15,871	242,355	.....	20,156	8,792	327,038	8,188	816,786	481,560	109	.....	.....	26	.....	144	.....	4
15,712	48,848	200,944	.....	10,359	8,024	1,013,939	28,455	1,560,551	518,157	281	.....	.....	.....	.....	281	.....	5
42,720	16,656	95,842	.....	8,674	37,461	358,156	12,718	711,261	340,387	289	.....	.....	100	.....	189	.....	6
291,259	67,303	1,520,076	.....	7,214	278,576	3,136,894	171,032	8,567,045	5,259,119	2,879	1,035	.....	4	.....	1,840	1,074	7
773,998	1,286,876	16,861,160	37,557	.....	1,109,985	32,134,191	3,233,085	63,373,984	28,006,708	30,846	10,400	7,667	30	.....	12,749	15,383	8
.....	.....	5,677	.....	120	141	10,389	741	25,756	14,626	21	.....	.....	.....	.....	21	.....	9
65,878	26,402	230,711	.....	1,840	21,126	1,834,058	11,436	2,643,835	798,341	531	75	.....	80	.....	376	.....	10

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

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
	CANTON—Continued.															*Dollars.*
1	Marble and stone work, except slate.	4	16	4	.....	.....	.....	12	(3)	12	(3)	12	12	12	.....	.....	.....	27,700
2	Models and patterns, not including paper patterns.	3	33	6	1	.....	2	24	Au	36	Oc	8	25	25	.....	.....	.....	43,414
3	Printing and publishing	19	322	23	18	43	39	199	De	206	Ja	190	210	183	27	.....	.....	631,693
4	Signs and advertising novelties	7	99	4	5	1	4	85	De	134	My	59	137	21	116	.....	.....	55,974
5	Structural ironwork, not made in steel works or rolling mills.	5	394	.....	27	54	15	298	De	325	Jy	208	321	321	.....	.....	.....	1,764,504
6	Tobacco, cigars and cigarettes	9	25	10	1	.....	.....	14	Apr 4	15	De 4	13	15	12	3	.....	.....	7,798
7	All other industries *	117	8,268	47	318	454	339	7,110	.....	.....	.....	.....	7,370	6,226	1,144	.....	.....	35,558,982

*All other industries embrace—

Aluminum ware	2	Carriages and wagons, repair work only	2	Cutlery and edge tools, pocketknives	2	Foundry supplies	1
Artificial stone products	4	Cars and general shop construction and repairs by electric-railroad companies	1	Druggists' preparations	2	Fur goods	2
Automobiles	1	Cleansing and polishing preparations	3	Electrical machinery, apparatus, and supplies	5	Furniture	6
Awnings, tents, and sails	2	Clothing, men's	1	Electroplating	2	Gas fixtures	2
Bells	1	Clothing, women's	3	Engines, steam, gas, and water	1	Hardware, saddlery	2
Brass and bronze products	3	Coffee, roasting and grinding	1	Fancy articles, metal novelties	1	Ice, manufactured	1
Brick, building	1	Copper, tin, and sheet-iron work	2	Flour-mill and gristmill products	2	Instruments, medical and surgical	1
Brooms, from broom corn	1			Food preparations, not elsewhere specified	1	Iron and steel, doors and shutters	1
Butter	3					Iron and steel forgings, not made in steel works or rolling mills	2
Carriage and wagon materials	1						

1	**CINCINNATI**—All industries.	2,239	86,169	1,925	3,789	6,694	4,081	69,680	De	77,149	Ap	64,807	77,911	57,929	19,730	159	93	268,015,132
2	Artificial limbs	6	28	3	4	.....	2	19	De 4	20	Mh	18	19	17	2	.....	.....	43,465
3	Automobile bodies and parts	38	1,228	34	62	88	69	975	No	1,353	Fe	607	1,342	1,283	55	3	1	3,339,846
4	Automobile repairing	48	416	50	26	23	31	286	De	297	Mh	275	317	307	4	6	.....	442,559
5	Bookbinding and blank-book making.	22	217	29	7	5	11	165	No	180	Ja	153	175	86	86	3	.....	235,682
6	Boots and shoes, not including rubber boots and shoes.	22	7,382	5	207	301	300	6,569	De	6,927	Ap	6,218	6,889	4,223	2,613	35	18	16,480,667
7	Boxes, cigar	5	140	8	3	1	1	127	No	131	Ja	122	130	56	74	.....	.....	115,423
8	Boxes, paper and other, not elsewhere specified.	19	906	8	45	20	25	808	De	863	My	768	870	313	536	2	19	1,514,769
9	Boxes, wooden packing, except cigar boxes.	10	394	13	13	5	3	360	Au	421	Ap	300	384	374	10	.....	.....	730,609
10	Brass, bronze, and copper products	13	915	14	25	32	28	816	Mh	854	Oc	777	837	793	37	7	.....	2,120,698
11	Bread and other bakery products	182	2,345	193	60	191	156	1,745	De	1,935	Jy	1,631	1,959	1,374	580	4	1	5,506,979
12	Biscuit and crackers	4	841	.....	25	77	32	707	De	852	Jy	576	852	432	420	.....	.....	2,345,991
13	Bakery products, other than biscuit and crackers.	178	1,504	193	35	114	124	1,038	De	1,083	Fe	994	1,107	942	160	4	1	3,160,988
14	Brick	4	99	4	7	1	1	86	Je	111	Fe	59	91	91	.....	.....	.....	281,674
15	Brooms, from broom corn	6	63	8	.....	2	1	52	De	57	Fe	47	57	57	.....	.....	.....	90,534
16	Butter	9	251	2	27	22	49	151	Jy	183	De	128	146	103	43	.....	.....	921,148
17	Carriage and wagon materials	9	272	7	10	5	8	242	Au	274	Ja	163	254	239	14	1	.....	717,782
18	Carriages and wagons, including repairs.	19	281	20	16	19	10	216	My	231	Ja	182	200	187	13	.....	.....	592,757
19	Carriages and wagons	8	209	5	10	17	10	167	My	185	No 4	147	147	135	12	.....	.....	569,790
20	Repair work only	11	72	15	6	2	.....	49	De	59	Ja	35	53	52	1	.....	.....	22,967
21	Cars and general shop construction and repairs by steam-railroad companies.	10	1,687	.....	33	112	19	1,523	De	1,660	Ap	1,405	1,660	1,626	34	.....	.....	1,312,936
22	Chemicals	9	311	1	27	63	46	174	Au	199	Ap	147	195	180	15	.....	.....	1,838,817
23	Cleansing and polishing preparations	12	88	12	12	21	14	29	My	35	Ja	25	30	21	9	.....	.....	317,727
24	Clothing, men's	108	6,511	136	172	612	283	5,308	De	6,195	Ap	3,618	6,196	2,067	4,115	3	11	14,097,373
25	Regular factories	52	5,758	64	167	612	281	4,634	De	5,480	Ap	3,972	5,481	1,911	3,557	2	11	14,026,227
26	Men's, youths', and boys'	42	4,946	57	149	553	251	3,936	De	4,675	Ap	3,378	4,676	1,764	2,902	2	8	11,495,147
27	All other	10	812	7	18	59	30	698	De	805	Mh	573	805	147	655	.....	3	2,531,080
28	Contract work	56	753	72	5	.....	2	674	No	716	My 4	646	715	156	558	1	.....	71,146
29	Clothing, women's	34	1,129	43	40	84	54	908	Au	999	My	791	948	305	625	1	17	2,169,934
30	Coffee and spice, roasting and grinding.	12	517	6	20	106	34	351	Se	407	Mh	296	357	165	192	.....	.....	2,508,010
31	Confectionery and ice cream	58	1,782	68	68	103	145	1,398	Oc	1,615	Mh	1,273	1,567	567	990	5	5	3,598,709
32	Cooperage	6	133	6	10	2	2	113	De 4	120	Mh	108	121	120	1	.....	.....	680,005
33	Copper, tin, and sheet-iron work	32	906	26	60	46	42	732	Ja	994	Jy	645	745	669	76	.....	.....	2,743,304
34	Electrical machinery, apparatus, and supplies.	24	682	13	47	46	34	542	De	616	Jy	494	615	583	32	.....	.....	2,951,351
35	Electroplating	5	63	5	3	2	2	51	De	64	Fe	42	67	58	9	.....	.....	40,873
36	Engraving and diesinking	7	20	9	.....	.....	1	16	Ja 4	17	Au 4	15	16	16	.....	.....	.....	16,944
37	Engraving, steel and copper plate, including plate printing.	9	130	9	1	1	1	118	Je	132	Fe	96	118	69	49	.....	.....	59,203
38	Flavoring extracts	14	224	15	14	42	18	135	Se 4	142	Fe	120	140	95	43	.....	2	1,245,132
39	Flour-mill and gristmill products	6	74	14	7	6	9	38	De	46	My	32	46	46	.....	.....	.....	403,749
40	Food preparations, not elsewhere specified.	14	208	8	23	17	11	149	Fe	169	Se	133	189	122	67	.....	.....	601,864
41	Foundry and machine-shop products	133	6,982	93	358	575	241	5,715	De	6,743	My	4,933	6,673	6,526	145	2	.....	18,252,464
42	Foundry supplies	7	153	3	20	24	19	87	No	99	Mh	78	95	93	2	.....	.....	453,107
43	Fur goods	3	25	1	2	1	2	19	Se	25	Ap	14	18	7	11	.....	.....	40,530
44	Furniture	41	1,703	35	91	58	38	1,481	De	1,600	Ja	1,319	1,600	1,467	101	32	.....	3,555,076
45	Grease and tallow, not including lubricating greases.	8	294	7	16	21	8	242	My	232	Au	260	261	261	.....	.....	.....	948,336
46	Hardware	10	567	5	26	53	23	460	De	523	Mh	385	519	424	95	.....	.....	1,470,108

[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.				Rented.[2]	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
.....	.....	18,192	.....	420	100	39,524	848	82,650	42,278	31	15	.....	.....	.....	16	.....
1,789	1,682	51,010	1,264	1,920	206	13,140	1,028	93,339	79,171	51	.....	.....	.....	.....	51	.....
54,794	85,990	282,355	700	14,314	22,644	323,827	6,985	1,142,874	812,062	276	.....	.....	.....	.....	276	.....
8,350	2,919	32,776	.....	3,824	369	25,576	295	91,853	65,982	3	.....	.....	.....	.....	3	.....
118,874	113,392	453,451	47,314	1,000	52,821	1,466,928	31,521	2,594,878	1,096,429	1,179	125	.....	60	.....	994	130
1,000	.....	9,496	.....	1,391	3,366	13,254	218	29,491	16,019	1	.....	.....	.....	.....	1	.....
1,245,301	1,073,925	8,718,741	107,714	30,444	1,174,289	18,982,636	1,280,127	41,003,461	20,740,698	15,892	6,900	925	693	.....	7,374	2,636
13,892,351	13,927,410	68,650,321	3,474,692	2,429,536	18,130,198	291,711,406	4,569,037	500,040,996	203,760,553	121,526	58,742	2,498	6,137	.....	54,149	30,345
12,275	3,445	17,494	200	14,124	1,091	25,504	577	96,671	70,590	15	.....	.....	4	.....	11	.....
213,972	116,484	1,132,913	.....	44,172	72,142	3,123,516	32,498	5,207,453	2,051,439	1,641	500	.....	8	.....	1,133	55
46,249	47,953	360,144	.....	40,095	16,452	721,394	18,996	1,519,247	778,857	290	.....	.....	14	.....	276	.....
15,908	15,241	124,218	3,373	16,902	2,127	167,200	3,147	642,536	472,189	134	.....	.....	.....	.....	134	.....
747,757	1,440,730	6,131,487	.....	93,840	606,984	16,836,937	126,598	31,223,081	14,259,546	3,807	2,148	.....	.....	.....	1,659	1,461
10,000	1,820	80,150	251	2,916	3,616	148,128	5,694	343,809	189,987	152	125	.....	.....	.....	27	25
103,221	43,402	525,745	.....	53,432	70,065	1,222,775	20,343	2,645,239	1,402,121	761	135	.....	135	.....	491	.....
48,120	9,656	329,949	.....	8,120	23,125	1,085,713	11,025	1,790,614	693,876	1,163	935	.....	10	.....	218	139
178,914	90,826	855,007	2,941	8,052	331,809	1,419,551	57,329	3,641,519	2,164,639	1,039	297	.....	135	.....	607	304
230,503	431,317	1,578,863	1,566	99,597	341,147	8,750,595	168,828	14,140,223	5,220,800	1,426	580	.....	195	.....	651	454
114,967	144,991	460,352	.....	2,310	242,106	2,888,402	48,304	4,888,107	1,951,401	173	150	.....	.....	.....	23	93
115,536	286,326	1,118,511	1,566	97,287	99,041	5,862,193	120,524	9,252,116	3,269,399	1,253	430	.....	195	.....	628	361
21,695	2,259	80,173	.....	518	9,695	38,348	32,709	253,019	181,962	315	215	.....	.....	.....	100	.....
.....	4,075	51,731	.....	2,916	578	112,277	1,786	217,786	103,723	35	.....	.....	.....	.....	35	.....
86,735	43,387	150,872	.....	5,520	47,012	7,636,875	38,948	8,824,102	1,148,279	2,015	1,544	.....	20	.....	451	58
32,969	16,308	219,573	.....	14,567	8,989	575,405	9,119	979,250	394,726	638	580	.....	18	.....	40	3
54,915	33,657	219,822	.....	17,088	12,702	966,592	9,196	1,547,807	572,019	283	75	.....	78	.....	130	10
46,618	30,381	173,272	.....	8,807	11,251	911,213	5,576	1,386,790	470,001	218	75	.....	70	.....	73	10
8,297	3,276	46,550	.....	8,191	1,451	55,379	3,620	161,017	102,018	65	.....	.....	8	.....	57	.....
90,349	194,705	2,448,257	.....	.....	481	1,234,862	57,955	4,026,932	2,734,115	1,022	484	.....	.....	.....	538	111
56,904	115,474	166,975	.....	7,348	99,800	473,891	79,231	1,518,237	905,115	1,292	230	.....	60	.....	1,002	.....
49,604	43,298	23,861	.....	4,163	9,809	235,862	1,715	478,224	240,647	46	.....	.....	.....	.....	46	.....
1,001,290	1,214,999	4,576,182	2,028,183	265,101	728,352	16,719,957	56,510	32,254,217	15,477,750	947	190	.....	.....	.....	757	52
991,495	1,213,315	3,977,708	2,004,877	252,519	726,618	16,697,097	49,254	31,394,174	14,647,823	861	190	.....	.....	.....	671	52
812,239	1,123,132	3,497,018	1,867,319	225,466	488,067	12,415,388	38,437	25,684,840	13,231,015	629	190	.....	.....	.....	439	52
179,256	90,183	480,750	137,558	27,053	238,551	4,281,709	10,817	5,709,334	1,416,808	232	.....	.....	.....	.....	232	.....
9,795	1,684	598,414	23,306	12,582	1,734	22,860	7,256	860,043	829,927	86	.....	.....	.....	.....	86	.....
193,355	150,475	960,304	60,995	57,113	60,771	2,957,036	11,356	5,135,218	2,166,826	160	.....	.....	.....	.....	160	.....
75,836	276,929	279,848	.....	26,465	82,186	4,904,053	23,127	6,611,920	1,684,740	954	50	.....	350	.....	554	546
244,575	208,597	887,273	450	81,671	598,045	5,340,135	77,401	9,428,209	4,010,673	1,491	565	.....	137	.....	789	514
33,742	5,250	119,585	.....	12,300	15,730	509,607	6,833	831,708	315,268	379	362	.....	.....	.....	17	58
272,720	109,867	734,172	707	12,987	99,403	2,735,874	23,523	4,805,466	2,046,069	1,054	.....	.....	508	.....	546	95
153,301	76,354	572,848	20,039	27,043	93,396	1,024,751	29,693	2,613,032	1,558,588	922	105	.....	97	.....	720	219
7,768	3,488	58,479	232	4,787	596	19,052	2,320	133,714	112,342	101	.....	.....	.....	.....	101	.....
.....	320	20,143	.....	2,302	185	5,147	449	44,844	39,248	14	.....	.....	.....	.....	14	.....
3,275	3,116	97,110	3,102	5,552	208	44,666	987	215,825	170,172	27	.....	.....	.....	.....	27	.....
65,980	73,941	136,774	.....	16,209	27,143	1,884,223	16,512	2,644,384	743,649	224	110	.....	.....	.....	114	.....
17,469	14,189	47,335	.....	4,119	4,871	995,533	14,966	1,207,788	197,289	690	200	.....	60	.....	430	.....
62,321	34,785	130,018	.....	10,701	12,186	689,202	23,825	1,092,547	379,520	550	265	.....	35	.....	250	29
1,324,468	915,083	6,120,097	67,982	144,486	825,524	9,739,133	366,293	25,566,986	15,461,560	9,638	1,797	.....	925	.....	6,916	1,180
47,748	37,514	78,620	34	5,048	20,074	431,351	24,627	821,806	365,828	910	347	.....	.....	.....	563	118
4,000	1,251	16,743	277	2,760	144	14,225	207	46,767	32,335	7	.....	.....	.....	.....	7	.....
306,321	107,505	1,360,937	6,611	53,547	83,811	2,658,504	78,076	5,890,337	3,153,757	3,336	1,725	.....	373	.....	1,238	754
37,236	17,330	236,433	.....	3,636	9,494	1,312,778	124,481	2,104,759	667,500	624	619	.....	.....	.....	5	179
93,791	140,174	414,864	3,448	12,363	83,841	806,423	23,893	1,901,011	1,070,635	860	693	.....	25	.....	142	623
Jewelry	1															
Lamps	1															
Leather goods, not elsewhere specified	1															
Liquors, malt	2															
Looking-glass and picture frames	1															
Mattresses and spring beds, not elsewhere specified	1															
Mineral and carbonated waters	3															
Mucilage, paste, and other adhesives, not elsewhere specified	1															
Paints	1															
Patent medicines and compounds	4															
Photo-engraving	2															
Pickles and preserves	1															
Pottery	1															
Pumps, steam	1															
Roofing materials, metal shingles and ceiling	3															
Rubber tires, tubes, and rubber goods, not elsewhere specified	4															
Saddlery and harness	1															
Safes	2															
Shirts	2															
Slaughtering and meat packing	1															
Sporting and athletic goods	1															
Springs, steel, automobile	1															
Stamped and enameled ware, not elsewhere specified	2															
Steam fittings and steam and hot-water heating apparatus	1															
Sulphuric, nitric, and mixed acids	1															
Surgical appliances	1															
Tools, not elsewhere specified	4															
Toys and games	2															
Trunks and valises	1															
Umbrellas and canes	1															
Watchcases	1															
Watches	1															

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

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
	CINCINNATI—Con.															*Dollars.*
1	Hats and caps, other than felt, straw, and wool.	12	308	16	9	22	14	247	No [3] 271	Ap 163	268	65	189	.....	14	457,631
2	Ice, manufactured	16	245	2	18	10	9	206	Jy 288	Ja 141	198	197	1	.....	.....	2,105,802
3	Iron and steel, welding	10	39	13	2	.....	2	22	Oc [3] 25	Jy 18	25	20	5	.....	.....	40,181
4	Jewelry	24	432	43	14	22	29	324	Je 368	Oc 173	301	279	78	4	.....	1,194,429
5	Leather goods, not elsewhere specified	7	93	8	9	.....	4	72	Oc [3] 82	Fe [3] 55	82	50	31	.....	1	343,008
6	Leather, tanned, curried, and finished	13	751	12	27	24	6	682	Oc 739	Fe 639	732	722	10	.....	.....	15,312,985
7	Liquors, malt	17	1,205	.....	79	116	8	1,002	Jy 1,079	No 842	855	849	6	.....	.....	10,582,180
8	Lithographing	11	391	8	18	26	19	320	Oc 353	Ja 278	344	292	52	.....	.....	1,090,214
9	Lumber, planing-mill products, not including planing mills connected with sawmills.	22	551	17	44	51	27	412	De 487	Ja 313	918	908	10	.....	.....	2,098,105
10	Machine tools	46	6,510	18	323	426	170	5,573	De 6,401	My 5,049	6,423	6,327	91	5	.....	21,183,382
11	Marble and stone work	25	197	33	12	12	4	136	Au 149	Ja 114	148	148	.....	.....	.....	584,059
12	Monuments and tombstones	16	89	22	5	4	1	57	Oc 61	Ja 50	60	60	.....	.....	.....	108,304
13	Other marble and stone work, except slate.	9	108	11	7	8	3	79	Au 89	Ja 64	88	88	.....	.....	.....	475,255
14	Mattresses and spring beds, not elsewhere specified.	11	190	8	13	9	6	154	No 175	Ja 122	159	107	50	2	.....	512,824
15	Millinery and lace goods, not elsewhere specified.	15	463	16	20	12	17	398	Au 499	Mh 345	418	71	346	1	.....	472,393
16	Mineral and carbonated waters	12	136	13	8	7	4	104	Au 124	Ja 83	102	100	2	.....	.....	499,098
17	Models and patterns, not including paper patterns.	24	306	31	18	15	8	234	No 287	Fe 192	270	267	2	1	.....	637,452
18	Optical goods	13	160	6	14	13	23	104	Oc [3] 109	Ja 98	108	94	14	.....	.....	259,503
19	Paints	16	751	9	48	141	66	487	Se 555	Fe 405	515	504	11	.....	.....	8,470,623
20	Patent medicines and compounds	31	238	20	14	19	64	121	De 146	Fe 100	142	57	85	.....	.....	280,058
21	Patent and proprietary medicines	21	199	10	12	9	59	109	De 131	Fe 89	128	44	84	.....	.....	229,690
22	Patent and proprietary compounds, including compounds not elsewhere specified.	10	39	10	2	10	5	12	De 15	Ja 10	14	13	1	.....	.....	50,368
23	Phonographs and graphophones	7	72	1	9	3	3	58	No 78	Ja 31	74	74	.....	.....	.....	130,359
24	Photo-engraving	11	187	6	21	16	8	136	Oc 156	Ja 108	151	134	6	10	1	130,723
25	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments.	4	24	5	2	.....	2	15	(4) 15	(4) 15	15	15	.....	.....	.....	83,882
26	Printing and publishing, book and job.	172	3,314	150	164	173	190	2,637	No 2,937	Fe 2,383	2,918	1,933	973	11	1	7,253,227
27	Printing and publishing, newspapers and periodicals.	90	2,238	56	225	506	337	1,114	De 1,171	Ja 1,062	1,183	1,047	136	.....	.....	6,381,277
28	Printing and publishing	9	1,450	4	173	399	147	727	De 755	Ja 697	767	726	41	.....	.....	3,714,050
29	Printing, publishing, and job printing.	12	540	12	19	46	82	387	No 424	Ja 365	416	321	95	.....	.....	2,432,462
30	Publishing without printing	69	242	40	33	61	108	.....	.....	.....	.....	.....	.....	.....	.....	234,765
31	Shirts	9	1,102	4	42	64	40	952	Oc 969	Jy 925	956	98	858	.....	.....	2,363,394
32	Signs and advertising novelties	13	173	12	8	4	7	142	Jy 167	Ja 101	155	111	44	.....	.....	208,931
33	Slaughtering and meat packing	42	1,922	51	48	143	56	1,624	De 1,794	Jy 1,582	1,790	1,584	206	.....	.....	9,869,641
34	Statuary and art goods	6	81	6	5	1	4	65	Se [3] 69	Ja 57	66	63	3	.....	.....	139,563
35	Stoves and hot-air furnaces	11	1,262	3	62	171	103	923	De 1,098	Ap 788	1,089	1,084	5	.....	.....	4,927,280
36	Structural ironwork, not made in steel works or rolling mills.	15	375	11	32	24	14	294	Se 353	My 224	342	328	14	.....	.....	1,011,567
37	Tobacco, cigars	124	2,146	131	47	65	16	1,887	De 2,105	My 1,748	2,121	840	1,281	.....	.....	2,780,938
38	Tools, not elsewhere specified	15	145	14	13	3	7	108	Ja 152	Je 80	140	125	15	.....	.....	288,251
39	Machinists' tools	7	80	6	7	2	2	69	Ja 116	Je 47	96	88	8	.....	.....	139,720
40	All other	8	59	8	6	1	5	39	Se 48	Fe 32	44	37	7	.....	.....	148,531
41	Toys and games	5	79	7	1	1	.....	70	De 317	Ja [3] 19	318	8	310	.....	.....	31,191
42	Trunks and valises	4	36	3	2	1	1	29	No 34	Fe [3] 25	32	22	10	.....	.....	77,913
43	Varnishes	10	118	5	19	27	10	57	Au 66	Fe [3] 49	62	59	3	.....	.....	688,449
44	Wirework, not elsewhere specified	8	99	7	4	6	3	79	Jy 97	Ja 64	85	85	.....	.....	.....	149,596
45	All other industries *	394	20,698	267	833	1,851	1,059	16,688	.....	.....	18,500	14,272	4,205	21	2	72,916,319

*All other industries embrace—

Aluminum manufactures	1	Canning and preserving, vegetables	2
Artificial flowers	1	Carpets, rag	2
Artificial stone products	2	Cars and general shop construction and repairs by electric-railroad companies	2
Automobiles	7	Cars, electric-railroad, not including operations of railroad companies	1
Awnings, tents, and sails	6	Cash registers and parts	1
Babbitt metal	1	Chewing gum	1
Bags, other than paper, not including bags made in textile mills	2	Clocks	3
Bags, paper, exclusive of those made in paper mills	7	Cloth, sponging and refinishing	3
Baking powders and yeast	3	Clothing, men's, buttonholes	6
Baskets, and rattan and willow ware	3	Coal-tar products	2
Belting and hose, other than leather and rubber	2	Coffins, burial cases, and undertakers' goods	2
Belting, leather	3	Condensed milk	1
Billiard tables and accessories	1	Cordage and twine	1
Blacking, stains, and dressings	3	Cordials and flavoring sirups	2
Bluing	3	Corsets	2
Boot and shoe cut stock	5	Cotton goods	1
Boot and shoe findings	5	Cotton small wares	1
Brushes	5	Cutlery and edge tools	2
Dental goods	4	Glue, other than fish	2
Druggists' preparations	7	Gold and silver, reducing and refining, not from the ore	2
Dyeing and finishing textiles, exclusive of that done in textile mills	1	Hair work	5
Emery and other abrasive wheels	1	Hand stamps	4
Enameling	1	Hats, fur-felt	1
Engines, steam, gas, and water	2	Hats, straw	1
Engravers' materials	2	House-furnishing goods, not elsewhere specified	8
Engraving, wood	2	Ink, printing	6
Envelopes	1	Ink, writing	4
Fancy articles, not elsewhere specified	3	Instruments, professional and scientific	2
Fertilizers	2	Iron and steel, steel works and rolling mills	1
Fire extinguishers, chemical	1	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	1
Flags and banners	3	Iron and steel, forgings, not made in steel works or rolling mills	4
Furnishing goods, men's, neckwear	4	Japanning	1
Galvanizing	1	Jewelry and instrument cases	1
Gas and electric fixtures	1		
Gas machines	1		
Glass	1		
Glass, cutting, staining, and ornamenting	7		
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).
[3] 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.				Rented.[2]	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
40,600	50,306	181,300	371	16,570	8,751	726,639	2,528	1,271,137	541,970	29	.....	.....	.....	.....	29	.....
47,508	18,022	267,070	.....	2,700	22,133	51,322	271,920	1,363,591	1,040,349	5,355	4,085	190	.....	.....	1,080	432
4,180	1,048	24,452	4,804	4,009	796	42,332	1,701	103,157	59,124	20	.....	.....	.....	.....	20	.....
30,647	48,849	323,750	18,425	24,400	4,601	1,387,768	7,721	2,263,840	868,351	133	.....	.....	.....	.....	133	.....
27,046	1,965	65,110	1,000	5,654	7,137	420,988	2,902	694,283	270,393	119	.....	.....	.....	.....	119	.....
124,960	50,164	786,129	.....	4,005	151,877	7,071,545	73,559	10,093,997	2,948,893	2,187	1,170	667	170	.....	180	1,023
356,589	222,389	1,309,935	.....	1,900	1,702,338	2,023,683	424,282	7,789,700	5,341,735	11,973	11,511	.....	152	.....	310	2,216
85,270	71,266	354,824	11,615	12,582	18,835	579,183	12,556	1,367,199	775,460	636	120	.....	25	.....	491	31
110,875	79,907	415,235	1,035	15,956	29,900	2,022,869	28,990	3,122,558	1,070,699	2,699	1,625	.....	112	.....	962	633
1,155,929	752,142	6,549,150	279,700	57,474	2,744,578	6,895,268	268,663	25,047,625	17,883,694	10,226	2,015	.....	245	.....	7,966	802
34,347	22,024	165,181	2,583	7,572	10,036	261,483	11,635	667,758	394,640	789	412	.....	168	.....	209	200
11,792	4,583	81,531	2,279	2,378	2,335	89,353	2,942	305,935	213,640	208	.....	.....	167	.....	41	.....
22,555	17,441	83,650	304	5,194	7,701	172,130	8,693	361,823	181,000	581	412	.....	1	.....	168	200
46,679	23,768	134,253	.....	9,172	5,767	599,130	8,675	1,009,064	401,259	232	.....	.....	50	.....	182	35
39,813	24,974	196,200	.....	18,567	5,121	483,385	3,858	888,648	401,405	89	.....	.....	.....	.....	89	.....
26,180	13,182	121,926	.....	2,388	72,101	360,440	9,362	980,387	610,585	144	20	.....	.....	.....	124	.....
43,314	11,139	287,943	.....	9,085	83,277	135,918	8,688	891,434	746,828	353	.....	125	50	.....	178	.....
29,340	34,853	105,282	.....	16,744	7,154	142,989	3,834	419,184	272,361	53	.....	.....	.....	.....	53	.....
218,782	283,296	307,867	24,000	34,040	408,811	6,987,095	88,147	10,333,139	3,257,897	2,148	1,040	.....	150	.....	958	1,200
54,345	47,094	70,499	.....	12,220	8,953	371,208	1,716	779,204	406,280	38	.....	.....	.....	.....	38	.....
49,847	25,143	59,551	.....	9,720	8,149	343,387	1,630	686,668	341,651	37	.....	.....	.....	.....	37	.....
4,498	21,951	10,948	.....	2,500	804	27,911	86	92,626	64,629	1	.....	.....	.....	.....	1	.....
11,892	3,688	50,214	3,680	5,845	6,948	108,937	1,485	252,484	142,062	132	.....	.....	.....	.....	132	.....
41,745	30,611	162,613	1,512	9,428	2,369	67,569	4,726	427,367	355,072	51	.....	.....	.....	.....	51	.....
3,360	1,725	22,405	.....	4,100	787	712,412	1,250	733,090	69,428	36	6	.....	.....	.....	30	.....
464,055	314,215	2,350,266	220,047	185,351	138,547	4,303,569	88,172	10,678,735	6,286,994	2,905	310	.....	124	.....	2,471	236
305,202	929,524	1,572,081	507,560	53,356	369,981	3,011,019	52,887	10,567,143	7,503,237	2,920	1,125	.....	70	.....	1,725	625
172,677	660,600	1,186,595	8,347	32,713	343,588	2,357,220	32,793	7,378,103	4,988,090	1,774	75	.....	60	.....	1,639	5
63,752	137,303	386,086	800	7,381	20,535	613,099	20,039	2,106,943	1,473,805	1,146	1,050	.....	10	.....	86	620
68,773	131,621	.....	498,413	13,262	5,858	40,700	55	1,082,097	1,041,342	.....	.....	.....	.....	.....	.....	.....
229,722	120,099	527,633	31,348	43,250	160,002	2,479,182	16,131	4,248,335	1,753,522	719	570	.....	.....	.....	149	195
20,370	17,410	135,205	3,747	9,461	3,602	167,933	5,708	427,974	254,333	292	110	.....	.....	.....	182	.....
203,904	274,401	1,839,161	500	50,635	252,852	54,188,381	252,361	62,428,358	7,987,616	6,838	4,008	300	285	.....	2,245	1,413
8,766	3,826	63,002	.....	4,966	1,448	40,346	2,571	137,418	94,501	73	.....	.....	55	.....	18	28
227,608	288,593	1,203,352	300	30,165	125,472	2,567,744	49,818	5,251,557	2,633,995	900	570	.....	.....	.....	330	605
89,016	38,155	307,078	13,247	19,808	28,533	915,131	20,962	1,626,329	690,236	776	400	.....	60	.....	316	425
127,374	137,873	1,418,327	172	50,054	587,365	2,733,122	14,099	5,882,781	3,135,560	112	.....	.....	.....	.....	112	.....
42,359	9,223	128,305	.....	14,683	4,406	67,086	3,340	368,166	297,740	167	.....	.....	5	.....	162	15
30,204	4,555	93,267	.....	6,703	2,725	25,328	1,809	211,847	184,710	121	.....	.....	.....	.....	121	.....
12,155	4,668	35,038	.....	7,980	1,681	41,758	1,531	156,319	113,030	46	.....	.....	5	.....	41	15
1,560	936	15,632	.....	1,244	236	30,069	368	64,073	33,636	155	150	.....	.....	.....	5	.....
5,227	1,184	25,297	.....	3,723	1,351	76,291	583	129,952	53,078	16	.....	.....	.....	.....	16	.....
73,475	75,594	63,987	.....	3,303	15,961	701,826	5,518	1,199,624	492,280	171	95	.....	17	.....	59	.....
7,105	12,186	68,132	5,000	3,937	6,284	195,775	3,345	432,767	233,647	101	.....	.....	25	.....	76	28
3,607,921	3,866,515	15,635,266	143,655	499,029	6,731,214	91,214,544	1,234,203	143,602,061	51,153,314	28,977	14,524	1,216	1,187	.....	12,050	13,404

Knit goods	3	Paper goods, not elsewhere specified	4	Safes	3
Labels and tags	2	Paper patterns	1	Sausage casings	4
Lamps	5	Pens, fountain and stylographic	2	Saws	3
Lasts	3	Perfumery and cosmetics	8	Scales and balances	1
Lead, bar, pipe, and sheet	1	Photographic apparatus	1	Screws, machine	2
Liquors, distilled, grain alcohol	1	Photographic materials	1	Show cases	2
Liquors, vinous	1	Pickles, preserves, and sauces	8	Smelting and refining, not from the ore	3
Looking-glass and picture frames	4	Plated ware, hollow ware	1	Soap	9
Lubricating greases	1	Plumbers' supplies, not elsewhere specified	8	Sporting and athletic goods	2
Lumber and timber products	3	Pottery	4	Springs, steel, automobile	1
Mirrors, framed and unframed, not elsewhere specified	4	Printing and publishing, music	5	Stamped ware	3
Mucilage, paste, and other adhesives, not elsewhere specified	2	Printing materials	4	Stationery goods, not elsewhere specified	2
Musical instruments and materials, not specified	2	Pumps, not including power pumps	2	Steam fittings and steam and hot-water heating apparatus	3
Musical instruments, organs	1	Pumps, steam	1	Steam packing	2
Musical instruments, pianos	7	Refrigerators	1	Steel barrels, drums, and tanks, portable	1
Musical instruments, piano materials	2	Regalia, and society badges and emblems	5	Stencils and brands	5
Oil and cake, cottonseed	1	Roofing materials	3	Stereotyping and electrotyping	4
Oil, vegetable	2	Rubber tires, tubes, and rubber goods, not elsewhere specified	2	Stoves, gas and oil	2
Oleomargarine	2	Saddlery and harness	7	Surgical appliances	5
				Suspenders, garters and elastic woven goods	3
				Tinware, not elsewhere specified	4
				Tobacco, chewing and smoking	9
				Type founding	1
				Umbrellas and canes	3
				Vinegar	1
				Wall plaster and composition flooring	1
				Washing machines and clothes wringers	1
				Waste	1
				Watchcases	1
				Window and door screens, and weather strips	2
				Window shades and fixtures	3
				Wood preserving	1
				Wood, turned and carved	3
				Wooden goods, not elsewhere specified	2
				Wool scouring	1
				Wool shoddy	1

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

TABLE 46.—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	**CLEVELAND**—All industries	2,946	191,349	1,970	7,515	15,733	8,401	157,730	De 172,842	Ap 147,365	180,142	151,791	26,643	1,652	56	*Dollars.* 762,585,305
2	Artificial stone products	11	93	14	5	2	2	70	Au 96	Ja 35	87	87	.....	.....	.....	427,261
3	Automobile bodies and parts	75	8,509	28	392	676	319	7,094	De 9,475	Fe 4,655	9,524	9,196	328	.....	.....	32,242,794
4	Automobiles	10	13,316	.....	275	686	576	11,779	De 13,189	Fe 10,429	13,190	13,017	173	.....	.....	73,394,511
5	Automobile repairing	71	575	63	26	22	25	439	No 448	Fe [2] 422	450	446	4	.....	.....	867,065
6	Awnings, tents, and sails	9	389	1	18	27	14	329	Jy 420	Ja 242	303	173	130	.....	.....	1,713,437
7	Blacking, stains, and dressings	8	61	8	12	5	4	32	Jy 46	Ja 24	36	18	18	.....	.....	203,634
8	Bookbinding and blank-book making	17	333	16	14	2	11	290	De 325	Ja 251	321	199	121	1	.....	587,919
9	Boxes, cigar	4	58	3	2	1	1	51	De 65	Mh 40	65	15	50	.....	.....	43,937
10	Boxes, paper, shipping containers and set-up paper boxes.	9	935	2	27	17	23	866	No 1,047	My 757	946	314	632	.....	.....	1,866,405
11	Boxes, wooden packing, except cigar boxes.	13	618	2	34	13	8	561	No 598	Au 409	587	570	15	2	.....	1,356,022
12	Brass and bronze products	22	1,088	12	70	39	20	947	Au 1,126	Ja 702	1,062	1,047	15	.....	.....	2,266,462
13	Bread and other bakery products	288	3,198	282	99	518	115	2,184	De 2,387	Fe 1,948	2,408	1,779	621	2	6	6,534,286
14	Brooms, from broom corn	10	84	7	6	2	2	67	De [3] 69	Je 64	69	58	11	.....	.....	151,331
15	Butter	7	175	2	9	17	33	114	Jy 131	Ja 98	112	73	39	.....	.....	842,977
16	Carriages and wagons, including repairs.	18	240	17	23	8	6	186	.....	.....	196	195	1	.....	.....	699,581
17	Carriages and wagons	6	161	5	16	8	5	127	Oc [3] 134	Ja 113	130	129	1	.....	.....	512,761
18	Repair work only	12	79	12	7	.....	1	59	Ja [3] 64	Se 50	66	66	.....	.....	.....	186,820
19	Cars and general shop construction and repairs by steam-railroad companies.	8	4,463	.....	216	120	46	4,081	De 4,225	Ap 3,866	4,225	4,197	28	.....	.....	8,222,056
20	Chemicals	9	1,309	.....	61	150	77	1,021	De 1,311	My 735	1,311	1,123	187	1	.....	7,406,647
21	Cleansing and polishing preparations	17	124	14	18	20	11	61	Ja [3] 75	Se 48	69	37	32	.....	.....	252,405
22	Clothing, men's	73	3,800	65	145	214	202	3,174	.....	.....	3,680	1,259	2,415	2	4	13,328,013
23	Regular factories	52	3,447	38	143	214	201	2,851	No 3,384	Ja 2,415	3,323	1,139	2,178	2	4	13,208,503
24	Contract work	21	353	27	2	.....	1	323	De 354	Ja 288	357	120	237	.....	.....	20,450
25	Clothing, women's	103	6,938	79	292	553	388	5,626	.....	.....	5,494	1,991	3,499	4	.....	16,343,308
26	Regular factories	80	6,755	59	291	553	387	5,465	.....	.....	5,293	1,927	3,362	4	.....	16,278,402
27	Suits, skirts, and cloaks	44	4,536	33	87	403	305	3,608	Se 3,981	No 3,206	3,583	1,633	1,946	4	.....	12,335,260
28	Shirt waists and dresses, except house dresses.	26	2,006	17	90	136	68	1,695	Au 1,918	De 1,613	1,525	278	1,247	.....	.....	3,503,838
29	All other	10	213	9	14	14	14	162	Au 192	My 128	185	16	169	.....	.....	439,304
30	Contract work	23	188	25	1	.....	1	161	Jy 205	Ja 120	201	64	137	.....	.....	64,906
31	Coffee, roasting and grinding	9	430	.....	23	75	28	304	Se 349	Je 267	307	120	187	.....	.....	2,214,080
32	Confectionery and ice cream	41	1,763	23	85	134	126	1,395	Oc 1,959	Ap 965	1,706	645	1,061	.....	.....	5,930,460
33	Cooperage, hogsheads and barrels	5	307	5	8	5	2	287	Oc 325	Mh 260	317	317	.....	.....	.....	1,054,817
34	Copper, tin, and sheet-iron work	100	766	109	64	19	26	548	De 643	Ja 444	647	642	3	2	.....	1,396,322
35	Electrical machinery, apparatus, and supplies.	78	10,261	15	416	1,035	682	8,113	De 9,292	Fe 7,444	13,301	10,940	2,355	6	.....	30,373,821
36	Electroplating	21	151	18	15	2	4	112	De 141	Au 99	141	140	1	.....	.....	169,205
37	Engines, steam, gas, and water	9	302	.....	35	43	11	213	De 503	Je 139	508	508	.....	.....	.....	2,885,723
38	Flavoring extracts	12	227	12	8	34	16	157	Je 234	Oc 126	147	110	37	.....	.....	1,376,483
39	Flour-mill and gristmill products	8	109	2	11	15	7	74	No 86	Jy 60	88	85	3	.....	.....	1,363,052
40	Food preparations, not elsewhere specified.	24	684	20	42	75	40	507	Au 759	Ap 384	466	294	160	7	5	3,292,473
41	Foundry and machine-shop products	213	24,163	77	1,053	1,543	757	20,733	.....	.....	23,378	22,752	622	4	.....	70,529,977
42	Boiler shops	8	336	2	22	23	5	284	Ja 320	Je 247	304	299	5	.....	.....	1,079,443
43	Foundries	27	8,538	1	283	339	170	7,745	De 9,613	Jy 6,797	9,598	9,431	167	.....	.....	1,879,623
44	Machine shops	166	12,126	72	589	918	500	10,047	No 10,818	Ap 9,387	10,706	10,255	447	4	.....	53,183,349
45	Machine shop and foundry combined.	12	3,163	2	159	263	82	2,657	Oc 2,853	My 2,478	2,770	2,767	3	.....	.....	14,387,502
46	Fur goods	24	201	27	12	5	12	145	No 198	Fe 109	186	58	128	.....	.....	465,390
47	Furnishing goods, men's, neckwear	4	160	4	12	25	6	113	Oc [3] 133	My 99	133	12	121	.....	.....	313,392
48	Furniture	25	794	12	38	41	26	677	.....	.....	722	674	47	1	.....	1,594,850
49	Wood furniture, other than rattan and willow.	15	613	9	21	32	20	531	Se 574	Ja 438	566	523	42	1	.....	1,214,225
50	Metal furniture and store and office fixtures.	10	181	3	17	9	6	146	Au 160	Ja 102	156	151	5	.....	.....	380,625
51	Gas and electric fixtures	18	435	16	19	35	20	345	No 412	Ja 284	406	349	41	16	.....	1,508,541
52	Glass, cutting, staining, and ornamenting.	11	93	9	11	3	3	67	De 74	Fe 58	75	67	8	.....	.....	161,108
53	Hats and caps, other than felt, straw, and wool.	14	255	14	18	24	8	191	De 222	Ja [3] 161	234	136	98	.....	.....	602,465
54	House-furnishing goods, not elsewhere specified.	7	71	7	9	4	9	42	No 55	Ja 27	54	22	32	.....	.....	271,339
55	Iron and steel, steel works and rolling mills.	16	10,773	2	254	625	173	9,719	Ja 12,026	Oc 2,821	10,513	10,289	224	.....	.....	60,891,582
56	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	11	3,931	.....	81	152	95	3,603	Ja 4,137	Oc 2,790	3,617	2,939	666	12	.....	14,564,378
57	Iron and steel, forgings, not made in steel works or rolling mills.	13	2,013	3	74	93	42	1,801	De 2,145	My 1,482	2,145	2,141	4	.....	.....	10,727,658
58	Iron and steel, tempering and welding.	12	86	14	11	4	.....	57	No 79	Ap [3] 41	74	74	.....	.....	.....	184,967
59	Jewelry	17	94	14	3	2	5	70	De 82	Se 59	84	82	2	.....	.....	161,514
60	Knit goods	16	2,690	7	73	94	63	2,453	No 3,090	Ja 1,803	3,002	523	2,432	25	22	8,065,090
61	Liquors, malt	8	903	.....	31	71	43	758	Jy 887	De 642	650	639	11	.....	.....	9,305,482
62	Lithographing	9	742	1	40	17	47	637	De 752	Ja 554	752	610	140	2	.....	2,734,681
63	Lumber, planing-mill products, not including planing mills connected with sawmills.	38	777	16	54	49	23	635	Oc 748	Mh 502	737	736	1	.....	.....	2,509,740
64	Machine tools	27	4,925	8	198	315	232	4,172	De 4,574	Jy 3,853	4,573	4,433	140	.....	.....	19,545,083
65	Marble and stone work	26	267	21	23	20	9	194	.....	.....	198	197	.....	1	.....	1,003,090
66	Monuments and tombstones	14	93	10	13	8	4	58	Oc 66	Ja 38	65	64	.....	1	.....	239,670
67	Other marble and stone work, except slate.	12	174	11	10	12	5	136	Ja 147	Fe 111	133	133	.....	.....	.....	763,420

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

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						Electric horsepower generated in establishments reporting.
											Owned.					
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
29,896,429	33,875,821	211,206,276	5,814,329	3,528,595	44,283,735	581,705,611	31,743,833	1,091,577,490	478,128,046	460,108	174,627	44,841	18,496	50	222,094	67,336
8,839	3,447	107,532	.....	2,400	2,204	221,476	3,757	422,808	197,575	130	40	.....	.....	.....	90	.....
1,160,654	1,132,069	10,134,210	58,576	129,608	1,226,521	25,345,861	383,707	44,312,932	18,583,304	22,669	415	40	281	.....	21,933	532
1,223,458	2,064,228	17,912,854	95,717	22,923	4,282,677	70,893,051	596,381	110,254,504	38,765,072	9,581	1,300	.....	150	.....	8,131	1,524
53,453	51,157	688,580	36,821	89,961	10,505	860,381	18,126	2,095,159	1,216,649	492	20	.....	17	.....	455	2
58,057	55,047	329,082	200	5,345	163,361	1,103,338	24,173	1,960,536	833,025	318	225	.....	.....	.....	93	2
48,100	17,956	25,505	15	1,740	7,846	221,141	1,384	479,778	257,253	19	.....	.....	.....	.....	19	.....
74,263	9,796	343,786	42,256	19,392	5,604	235,264	6,466	863,746	622,016	222	.....	.....	.....	.....	222	.....
2,372	750	22,854	.....	3,735	191	49,657	1,836	107,539	56,046	54	20	.....	.....	.....	34	.....
118,617	53,227	673,018	1,219	87,147	124,747	1,427,792	21,121	3,135,027	1,686,114	785	208	.....	.....	.....	577	135
146,827	32,240	614,954	1,089	22,986	101,389	1,615,642	24,545	2,885,137	1,244,950	1,836	600	.....	.....	.....	1,236	.....
318,865	70,455	1,296,966	1,998	13,227	91,275	4,329,496	122,032	6,622,233	2,170,705	831	.....	.....	.....	.....	831	.....
350,917	1,198,288	2,697,028	5,384	174,879	212,223	11,555,487	256,512	19,413,046	7,601,047	2,513	371	.....	4	.....	2,138	56
10,260	15,212	71,018	.....	1,800	6,026	206,549	1,993	352,316	143,774	41	.....	.....	.....	.....	41	.....
31,369	51,552	93,946	4,234	12,515	20,565	2,408,016	7,199	2,744,456	329,241	246	.....	.....	55	.....	191	.....
76,625	17,417	271,175	6,400	17,075	21,370	344,544	9,941	890,945	536,460	425	.....	.....	25	.....	400	.....
61,116	16,520	187,443	.....	10,780	18,404	255,314	8,037	636,522	373,171	321	.....	.....	.....	.....	321	.....
14,509	897	83,732	6,400	6,295	2,966	89,230	1,904	254,423	163,289	104	.....	.....	25	.....	79	.....
418,105	158,451	6,144,241	.....	.....	16,608	4,547,946	286,074	11,571,425	6,737,405	6,040	2,440	3,285	.....	.....	315	7,566
200,529	339,758	1,494,842	.....	17,200	420,757	3,272,251	320,292	7,593,467	4,000,924	5,305	3,479	.....	11	.....	1,815	332
33,848	39,245	68,505	.....	31,286	2,379	298,579	2,047	639,537	338,311	93	.....	.....	20	.....	73	.....
866,384	665,670	3,451,808	726,144	169,630	504,100	9,572,073	59,372	19,433,496	9,801,551	748	60	.....	.....	.....	688	.....
861,084	664,270	3,123,849	725,676	159,836	503,824	9,571,592	55,823	19,012,387	9,384,972	707	60	.....	.....	.....	647	.....
5,300	1,400	327,959	468	9,794	276	481	4,049	421,109	416,579	41	.....	.....	.....	.....	41	.....
1,463,830	1,778,966	6,336,698	532,340	309,293	512,262	17,890,120	74,132	35,307,741	17,343,489	1,291	297	.....	.....	.....	994	3
1,462,830	1,778,446	6,161,761	524,345	301,715	511,803	17,888,453	72,082	35,041,342	17,080,807	1,256	297	.....	.....	.....	959	3
1,039,669	1,344,507	4,481,354	394,938	199,322	400,537	12,870,950	48,721	25,231,355	12,305,684	984	297	.....	.....	.....	687	3
393,814	406,240	1,539,945	129,407	88,548	102,913	4,373,040	18,514	8,712,799	4,321,245	217	.....	.....	.....	.....	217	.....
29,347	27,699	140,402	.....	13,845	8,353	638,463	4,847	1,097,188	453,878	55	.....	.....	.....	.....	55	.....
1,000	520	174,937	7,995	7,578	459	1,667	2,050	266,399	262,682	35	.....	.....	.....	.....	35	.....
115,822	487,364	255,387	.....	9,119	33,107	4,752,119	10,705	6,171,429	1,408,605	750	.....	.....	.....	.....	750	.....
450,675	358,886	1,332,583	.....	105,551	625,322	5,290,082	118,229	11,375,042	5,966,131	5,019	302	.....	60	.....	4,657	132
30,806	27,844	337,537	8,000	1,594	15,582	1,595,833	14,681	2,159,088	548,574	1,086	930	.....	.....	.....	156	.....
169,314	49,061	735,880	6,040	46,237	15,630	1,256,827	12,053	2,781,552	1,512,672	388	.....	.....	149	.....	239	123
1,550,440	1,976,800	10,025,713	16,514	148,421	3,777,282	24,606,883	495,516	52,324,151	27,221,752	14,196	684	8	589	.....	12,915	645
30,948	2,796	169,146	4,000	15,550	877	82,238	13,164	371,790	276,388	389	.....	.....	27	.....	362	.....
60,927	52,520	335,273	.....	12,432	76,596	411,089	15,491	1,059,614	633,034	1,155	200	.....	240	.....	715	396
57,769	124,610	180,217	.....	23,016	83,851	2,591,826	6,715	3,450,976	852,435	148	15	.....	.....	.....	133	.....
47,048	29,474	101,388	.....	5,058	25,640	4,008,524	18,745	4,382,725	355,456	1,633	1,050	.....	.....	.....	583	120
126,311	127,863	488,420	.....	22,535	82,835	2,428,978	36,080	4,098,830	1,633,772	958	160	.....	153	.....	645	.....
4,197,171	3,310,506	29,256,332	282,998	273,336	5,294,943	37,761,947	2,181,313	98,971,768	59,028,508	41,324	5,645	939	2,376	.....	32,364	7,655
126,436	36,094	419,335	.....	10,982	84,847	957,227	23,979	1,945,318	964,112	980	405	.....	330	.....	245	.....
1,079,374	743,948	11,664,669	30,567	23,872	826,698	9,459,145	1,090,628	28,175,561	17,625,788	13,893	310	52	630	.....	12,901	1,340
2,347,612	1,966,919	13,697,823	252,431	222,030	3,765,905	21,705,574	643,541	55,177,475	32,828,360	20,951	3,705	887	1,364	.....	14,995	4,509
643,749	563,545	3,475,005	.....	16,452	617,493	5,640,001	423,165	13,673,414	7,610,248	5,500	1,225	.....	52	.....	4,223	1,806
36,877	23,991	185,157	.....	30,642	6,556	459,617	1,807	940,193	478,769	30	.....	.....	.....	.....	30	.....
45,164	77,086	104,958	2,394	8,108	11,240	587,954	2,100	1,023,353	433,209	5	.....	.....	.....	.....	5	.....
154,481	115,929	942,427	.....	46,812	59,605	1,358,825	26,161	3,208,301	1,823,315	1,125	525	.....	95	.....	505	328
104,661	87,301	745,828	.....	34,361	54,285	1,054,572	16,032	2,529,170	1,458,566	699	475	.....	20	.....	204	328
49,820	28,628	196,599	.....	12,451	5,320	304,253	10,129	679,131	364,749	426	50	.....	75	.....	301	.....
65,582	124,897	407,025	1,500	11,714	9,731	801,712	23,163	1,763,319	938,444	412	135	.....	.....	.....	277	100
24,600	11,340	69,233	.....	7,476	8,163	250,246	2,659	470,624	217,719	52	.....	.....	4	.....	48	.....
56,511	72,977	236,474	.....	16,460	4,191	765,785	2,205	1,353,425	585,435	48	.....	.....	.....	.....	48	.....
20,090	9,050	36,732	3,081	4,491	1,326	164,238	1,828	305,395	139,329	98	.....	.....	.....	.....	98	.....
1,115,394	1,250,587	15,846,585	9,699	4,652	2,474,224	55,689,438	4,452,842	84,424,721	24,282,441	125,302	71,142	31,167	.....	.....	22,993	18,006
493,629	473,235	4,619,069	2,037	87,392	1,097,448	7,228,775	343,819	17,264,129	9,691,535	5,758	2,771	.....	25	.....	2,962	2,826
279,304	197,316	2,865,797	.....	21,822	1,741,078	5,024,376	638,400	13,373,139	7,710,363	6,044	175	.....	.....	.....	5,869	439
35,595	8,007	105,951	.....	4,708	31,828	47,252	26,892	348,392	274,248	347	.....	.....	6	.....	341	50
7,940	5,727	105,618	.....	10,612	813	107,885	2,189	290,155	180,081	49	.....	.....	.....	.....	49	.....
611,897	353,423	1,771,110	12,893	100,895	540,681	5,483,827	43,553	10,003,277	4,475,897	1,003	85	.....	.....	.....	918	.....
193,868	162,093	1,005,448	.....	.....	774,404	1,484,604	228,156	5,774,228	4,061,468	7,067	3,449	2,220	.....	.....	1,418	1,055
151,231	64,413	745,395	20,319	22,987	19,232	834,064	18,132	3,162,519	2,310,323	931	.....	.....	135	.....	796	.....
148,547	114,079	815,907	27,583	56,239	79,616	2,926,431	49,340	4,929,837	1,954,066	3,185	825	200	140	.....	2,020	85
877,442	792,010	5,587,258	126,594	54,550	1,846,795	4,869,526	193,980	18,656,823	13,593,317	7,778	1,100	135	15	.....	6,528	.....
53,154	38,134	279,911	1,220	10,310	18,656	392,762	11,868	1,085,848	681,218	997	.....	.....	334	.....	663	27
28,762	15,562	118,352	500	4,510	3,742	131,355	5,454	361,903	228,094	373	.....	.....	159	.....	214	.....
24,392	22,572	161,559	720	5,800	14,914	261,407	6,414	720,945	453,124	624	.....	.....	175	.....	449	27

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

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of—Maximum month.	Wage earners. Number, 15th day of—Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
	CLEVELAND—Con.															*Dollars.*
1	Mattresses and spring beds, not elsewhere specified.	6	155	3	12	4	12	124	Se 139	Ja 100	133	108	25	.....	.....	542,655
2	Millinery and lace goods, not elsewhere specified.	20	653	34	35	30	16	538	Mh 619	Je 418	581	189	392	.....	.....	1,033,690
3	Mineral and soda waters	29	235	37	15	24	7	152	Je 202	Fe 106	160	158	2	.....	.....	583,901
4	Models and patterns, not including paper patterns.	41	514	41	41	14	10	408	De 536	Ja 268	539	536	3	.....	.....	901,730
5	Oil, mineral and compositc	11	377	2	34	113	54	174	Je 185	Ja 165	171	162	9	.....	.....	1,515,912
6	Optical goods	7	108	3	6	15	10	74	Fe[3] 76	Oc 71	73	63	10	.....	.....	235,153
7	Paints	25	1,821	1	106	431	206	1,077	Jy 1,156	Mh 970	1,176	1,058	118	.....	.....	8,650,478
8	Patent medicines and compounds	43	286	28	40	34	30	154	.....	.....	186	94	92	.....	.....	1,757,659
9	Patent and proprietary medicines.	22	159	13	23	11	18	94	Ja 119	Jy 59	122	54	68	.....	.....	1,284,367
10	Patent and proprietary compounds, including compounds not elsewhere specified.	21	127	15	17	23	12	60	Oc 65	Fe 49	64	40	24	.....	.....	473,292
11	Perfumery and cosmetics	13	418	10	33	47	134	194	De 280	Ja 120	280	62	217	.....	1	1,352,723
12	Photo-engraving	7	140	1	15	5	12	113	Se 123	Ja 101	124	121	3	.....	.....	184,372
13	Plumbers' supplies, not elsewhere specified.	26	1,475	6	91	81	51	1,246	.....	.....	1,460	1,372	88	.....	.....	3,517,160
14	Printing and publishing, book and job.	221	3,378	188	233	235	215	2,507	.....	.....	2,753	2,117	615	20	1	7,206,158
15	Job printing and book publishing and printing.	200	3,219	174	213	204	183	2,445	De 2,708	Ja 2,285	2,679	2,052	606	20	1	6,905,465
16	Book publishing without printing.	12	78	9	10	28	31	.....	.....	.....	.....	.....	.....	.....	.....	142,151
17	Linotype work and typesetting	9	81	5	10	3	1	62	De 74	Ja[3] 52	74	65	9	.....	.....	158,542
18	Printing and publishing, newspapers and periodicals.	82	2,534	31	157	569	350	1,427	.....	.....	1,523	1,364	158	1	.....	8,434,824
19	Printing and publishing	15	1,702	4	48	409	192	1,049	No 1,135	Ja 950	1,111	1,010	101	.....	.....	5,334,308
20	Printing, publishing, and job printing.	25	689	10	67	125	109	378	De 400	Fe 362	412	354	57	1	.....	2,848,128
21	Publishing without printing	42	143	17	42	35	49	.....	.....	.....	.....	.....	.....	.....	.....	252,388
22	Printing materials	4	26	.....	7	5	2	12	Se[3] 13	Ja[3] 11	12	12	.....	.....	.....	69,394
23	Saddlery and harness	10	26	8	2	.....	.....	16	(4) 16	(4) 16	16	16	.....	.....	.....	28,158
24	Sausage, not made in slaughtering and meat-packing establishments.	19	332	16	26	42	16	232	De 246	Ja 222	244	240	4	.....	.....	832,100
25	Shipbuilding, wooden, including boat building.	3	8	4	.....	.....	.....	4	Ap 18	Oc[3] 3	6	6	.....	.....	.....	4,200
26	Signs and advertising novelties	16	226	15	20	41	10	140	Au 161	Ja 102	173	156	17	.....	.....	273,995
27	Slaughtering and meat packing	21	2,918	15	94	344	92	2,373	Ja 2,898	My 2,100	2,602	2,406	196	.....	.....	13,034,362
28	Stamped and enameled ware, not elsewhere specified.	22	974	3	54	21	26	870	No 1,017	Ja 723	977	811	165	1	.....	2,046,754
29	Steam fittings and steam and hot-water heating apparatus.	13	820	7	35	25	13	740	De 864	My 665	909	900	8	1	.....	2,574,486
30	Steel barrels, drums, and tanks, portable.	4	346	.....	26	16	7	297	De 451	Oc 170	451	451	.....	.....	.....	1,120,763
31	Stereotyping and electrotyping	6	173	5	11	8	9	140	De 162	Ja 129	150	147	3	.....	.....	265,059
32	Stoves and hot-air furnaces	12	560	6	42	42	22	448	.....	.....	534	529	5	.....	.....	1,707,044
33	Stoves and ranges	6	435	1	31	24	15	364	De 416	Ap[3] 331	417	412	5	.....	.....	1,486,161
34	Hot-air furnaces	6	125	5	11	18	7	84	De 117	Ap 64	117	117	.....	.....	.....	220,883
35	Stoves, gas and oil	15	4,012	.....	77	246	173	3,516	De 4,473	My 2,904	4,495	3,980	515	.....	.....	14,844,496
36	Structural ironwork, not made in steel works or rolling mills.	26	1,976	13	68	229	85	1,581	Ja 1,860	My 1,438	1,656	1,656	.....	.....	.....	7,326,313
37	Surgical appliances	5	14	6	.....	.....	2	6	Oc 8	Je[3] 5	9	7	2	.....	.....	10,545
38	Tobacco, cigars and cigarettes	158	1,208	159	31	24	8	1,046	Mh 1,102	Se 845	1,082	353	720	.....	9	1,764,767
39	Tools, not elsewhere specified	47	4,050	25	111	272	255	3,387	.....	.....	3,648	3,381	250	17	.....	13,990,619
40	Machinists' tools	33	3,448	21	76	243	225	2,883	Ja 3,567	Je 2,519	3,132	2,874	241	17	.....	12,539,026
41	All other	14	602	4	35	29	30	504	Mh 638	Ja 455	516	507	9	.....	.....	1,451,593
42	Trunks and valises	9	137	8	13	8	7	101	Je 117	Ja 73	101	92	9	.....	.....	256,806
43	Varnishes	10	339	2	57	185	117	478	De 533	Ja 450	533	463	69	1	.....	6,421,729
44	Window and door screens	4	38	8	3	.....	1	26	Je 37	Ja 11	20	19	1	.....	.....	41,913
45	Window shades and fixtures	6	23	7	4	3	2	7	Ja[3] 8	Je[3] 8	5	2	3	.....	.....	57,818
46	Wirework, not elsewhere specified	16	1,734	4	50	107	36	1,477	Ja 1,610	Je 1,356	1,595	1,374	221	.....	.....	8,401,071
47	All other industries*	391	44,065	198	1,501	4,802	2,013	35,551	.....	.....	38,469	31,058	5,880	1,523	8	226,983,408

*All other industries embrace—

Airplanes, seaplanes, and airships, and parts 1
Agricultural implements 1
Aluminum manufactures 6
Artificial flowers 4
Artificial limbs 6
Artists' materials 2
Asbestos products, textile-mill products, other than steam packing 1
Babbitt metal and solder 2
Bags, other than paper, not including bags made in textile mills 7
Bags, paper, exclusive of those made in paper mills 1
Baskets, and rattan and willow ware 1
Bells 1
Belting and hose, other than leather and rubber 1
Belting, leather 3
Bluing 1
Boots and shoes, not including rubber boots and shoes 4
Brick and terra-cotta products 13
Brushes 7
Buttons 4
Canning and preserving, fish 1
Card cutting and designing 1
Carpets, rag 3
Carriage and wagon materials 2
Carriages and sleds, children's 1
Cars and general shop construction and repairs by electric-railroad companies 1
Cars, electric-railroad, not including operations of railroad companies 1
Cash registers and calculating machines 2
Cheese 2
Chewing gum 1
Chocolate and cocoa products 2
Clocks 3
Cloth, sponging and refinishing 3
Clothing, men's, buttonholes 2
Coal-tar products 2
Coffins, burial cases, and undertakers' goods 3
Coke, not including gas-house coke 2
Collars and cuffs, men's 1
Cordials and flavoring sirups 2
Cotton goods 1
Crucibles, glass house pots 1
Cutlery and edge tools 2
Dental goods 2
Druggists' preparations 6
Dyeing and finishing textiles, exclusive of that done in textile mills 1
Emery and other abrasive wheels 1
Enameling 1
Engraving and diesinking 4
Engraving, steel and copper plate, including plate printing 5
Engraving, wood 2
Envelopes 2
Fancy articles, not elsewhere specified 3
Fertilizers 2
Files 1
Flags and banners 2
Foundry supplies 7
Furs, dressed 1
Galvanizing 4
Gas, illuminating and heating 1
Gas machines and gas and water meters 6
Glass 2
Gold and silver, reducing and refining, not from the ore 2
Grease and tallow, not including lubricating greases 3
Hair work 4
Hand stamps 6
Hardware 11
Hardware, saddlery 1
Hats, fur-felt 1
Hats, straw 1
Hats, wool-felt 1
Ice, manufactured 4

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

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						Electric horsepower generated in establishments reporting.
											Owned.					
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
44,182	18,972	148,128	.....	13,164	24,610	495,096	7,358	854,205	351,751	262	.....	.....	.....	.....	262	.....
126,851	70,890	539,557	260	30,943	74,295	1,162,633	15,097	2,353,760	1,176,030	357	85	.....	.....	.....	272	70
51,660	29,992	199,296	.....	14,477	60,061	520,526	7,575	1,096,047	567,946	208	.....	.....	.....	.....	208	.....
115,815	20,584	763,618	3,294	25,028	10,352	211,444	11,693	1,534,376	1,311,239	416	.....	.....	14	.....	402	21
141,155	171,056	203,195	1,800	10,320	71,323	4,317,053	12,792	5,906,753	1,576,908	251	74	.....	.....	.....	177	.....
27,976	28,927	96,397	.....	19,914	12,248	222,405	3,269	541,687	316,013	46	.....	.....	.....	.....	46	.....
585,273	732,036	1,087,288	52	23,750	444,107	10,632,268	112,373	17,436,225	6,691,584	4,323	480	.....	40	.....	3,803	42
137,438	95,099	156,995	200	24,056	250,832	1,130,151	11,131	2,937,378	1,796,096	189	.....	.....	.....	.....	189	.....
71,012	35,420	97,696	.....	10,607	245,751	768,580	4,148	2,014,084	1,241,406	77	.....	.....	.....	.....	77	.....
66,426	59,679	59,299	200	13,449	5,081	361,621	6,983	923,294	554,690	112	.....	.....	.....	.....	112	.....
106,771	179,250	156,092	.....	17,509	165,900	1,026,515	4,432	3,229,193	2,198,246	88	45	.....	.....	.....	43	.....
55,346	26,331	208,284	16,449	15,673	4,022	72,086	4,202	510,858	434,570	61	.....	.....	.....	.....	61	.....
333,868	286,154	1,302,992	21,027	29,895	59,324	2,244,029	85,662	5,393,331	3,063,640	1,518	85	.....	150	.....	1,283	.....
818,235	533,607	3,277,040	395,275	223,175	252,852	4,637,077	81,395	13,382,254	8,663,782	2,548	75	.....	60	.....	2,413	37
755,113	489,552	3,175,633	129,583	212,472	246,272	4,570,764	79,315	12,602,751	7,952,672	2,522	75	.....	60	.....	2,387	37
38,562	36,985	.....	261,448	6,423	4,784	51,304	.....	527,475	476,171	.....	.....	.....	.....	.....	.....	.....
24,460	7,070	101,407	4,244	4,280	1,796	15,009	2,080	252,028	234,939	26	.....	.....	.....	.....	26	.....
598,978	1,353,308	2,308,522	440,017	120,934	694,486	4,836,633	69,461	15,570,029	10,663,935	943	175	.....	30	.....	738	75
297,389	836,926	1,776,407	.....	81,095	551,690	4,034,663	50,453	11,419,323	7,334,207	197	.....	.....	.....	.....	197	.....
203,753	359,208	532,115	1,850	19,904	131,376	695,885	19,008	3,108,831	2,393,938	746	175	.....	30	.....	541	75
97,836	157,174	.....	438,167	19,935	11,420	106,085	.....	1,041,875	935,790	.....	.....	.....	.....	.....	.....	.....
17,868	9,489	15,234	1,592	5,780	3,646	27,701	1,154	133,153	104,298	19	.....	.....	.....	.....	19	.....
4,450	.....	21,653	.....	2,480	711	38,116	324	92,466	54,026	6	.....	.....	.....	.....	6	.....
83,267	75,454	361,308	.....	2,960	66,001	3,646,845	30,840	4,667,136	989,451	1,050	155	.....	45	.....	850	.....
.....	.....	2,464	.....	120	15	5,590	94	15,929	10,245	10	.....	.....	5	.....	5	.....
59,476	77,050	203,634	8,316	34,753	16,638	274,821	1,809	778,130	501,500	36	.....	.....	.....	.....	36	.....
388,932	632,362	3,225,099	13,322	11,424	438,074	63,991,190	409,495	71,061,098	6,660,413	6,914	3,220	.....	70	.....	3,624	1,118
214,440	65,514	1,083,764	4,183	30,724	87,885	1,435,201	74,781	3,382,626	1,872,644	1,015	320	.....	110	.....	585	25
216,923	36,198	957,738	9,603	12,927	270,590	814,906	107,268	2,866,412	1,944,238	855	305	.....	.....	.....	550	.....
99,945	30,211	281,671	.....	7,840	122,531	1,564,156	6,504	2,446,421	875,761	337	.....	.....	50	.....	287	.....
33,140	17,239	177,087	15,225	12,129	4,695	125,115	10,262	601,551	466,174	251	.....	.....	.....	.....	251	.....
143,535	34,510	518,757	2,196	13,885	58,321	1,242,079	31,569	2,417,750	1,144,102	715	500	.....	40	.....	175	218
111,233	52,221	420,916	2,196	385	56,921	832,292	25,200	1,799,984	942,492	550	375	.....	40	.....	135	218
32,302	32,289	97,841	.....	13,500	1,400	409,787	6,369	617,766	201,610	165	125	.....	.....	.....	40	.....
426,150	746,851	4,725,588	.....	13,502	1,316,871	8,661,692	179,870	19,489,305	10,647,743	3,099	710	.....	33	.....	2,356	226
343,059	375,181	2,080,776	23,086	14,729	343,341	7,487,585	86,677	11,721,132	4,146,870	5,529	.....	.....	75	.....	5,454	.....
.....	1,664	7,307	.....	1,705	45	6,560	226	24,396	17,610	14	.....	.....	.....	.....	14	.....
96,894	58,226	889,069	1,164	52,975	463,102	1,647,001	11,069	3,752,964	2,094,894	71	.....	.....	.....	.....	71	.....
399,787	666,158	4,619,356	3,603	42,200	1,998,190	5,811,219	189,828	17,602,520	11,601,473	6,495	2,000	.....	22	.....	4,473	1,733
289,300	569,866	3,847,346	3,345	25,870	1,943,702	4,510,287	156,572	15,605,948	10,939,080	5,815	2,000	.....	12	.....	3,803	1,733
110,487	96,292	772,010	258	16,330	54,488	1,300,932	33,256	1,996,572	662,384	680	.....	.....	10	.....	670	.....
56,071	17,421	133,868	.....	13,177	3,596	267,204	1,768	585,373	316,401	25	.....	.....	.....	.....	25	.....
277,757	327,067	566,612	.....	2,300	152,712	5,828,825	55,148	9,050,542	3,166,569	951	450	.....	.....	.....	501	673
5,825	2,202	29,490	.....	1,110	318	31,932	860	93,179	60,387	76	.....	.....	25	.....	51	.....
9,776	6,027	5,408	.....	2,520	238	47,378	170	75,718	28,170	2	.....	.....	.....	.....	2	.....
295,311	302,874	1,832,878	5,928	21,540	333,426	3,378,052	98,262	7,071,352	3,595,038	2,868	1,675	.....	120	.....	1,073	1,391
5,707,306	8,600,950	47,113,078	2,810,472	374,118	9,988,455	114,201,600	18,805,289	236,239,773	103,284,884	137,644	65,605	6,867	12,696	50	52,426	18,968

Ink, printing	1	Mucilage, paste, and other adhesives, not elsewhere specified	2	Roofing materials	8
Ink, writing	2	Musical instruments and materials, not specified	4	Rubber tires, tubes, and rubber goods, not elsewhere specified	6
Instruments, professional and scientific	7	Musical instruments, organs	1	Rules, ivory and wood	1
Iron and steel, blast furnaces	5	Needles, pins, and hooks and eyes	2	Safes	2
Iron and steel, cast-iron pipe	1	Oil, linseed	1	Salt	1
Iron and steel, wire nails and spikes	2	Oleomargarine	1	Saws	2
Iron and steel, wrought pipe	1	Paper and wood pulp, paper mills exclusively	1	Screws, machine	9
Japanning	2	Paper goods, not elsewhere specified	3	Sewing-machine cases	1
Labels and tags	1	Paving materials	1	Sewing machines and attachments	3
Lamps and reflectors	4	Peanuts, grading, roasting, cleaning, and shelling	1	Shipbuilding, steel, new vessels and repair work	5
Lead, bar, pipe, and sheet	2	Pens, fountain, and stylographic	1	Shirts	5
Leather goods, not elsewhere specified	2	Petroleum, refining	2	Show cases	1
Leather, tanned, curried, and finished	2	Phonographs and graphophones	2	Smelting, lead	1
Liquors, vinous	1	Photographic materials	2	Smelting and refining, not from the ore	2
Looking-glass and picture frames	7	Pickles, preserves, and sauces	5	Soap	4
Lubricating greases	4	Printing and publishing, music	3	Soda-water apparatus	2
Mirrors, framed and unframed, not elsewhere specified	1	Pumps, not including power pumps	2	Sporting and athletic goods	2
Motorcycles, bicycles, and parts	2	Refrigerators	1	Springs, steel, automobile	4
				Statuary and art goods	2
				Steam packing	3
				Stencils and brands	4
				Tin plate and terneplate	2
				Tinware, not elsewhere specified	2
				Tobacco, chewing and smoking, and snuff	14
				Toys and games	5
				Type founding	1
				Typewriters and supplies, ribbon	2
				Umbrellas and canes	1
				Wall paper, not made in paper mills	2
				Wall plaster and composition flooring	3
				Washing machines and clothes wringers	3
				Waste	2
				Wire	1
				Wood, turned and carved	6
				Wool shoddy	2
				Woolen goods	2
				Worsted goods	1

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

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															*Dollars.*
1	**COLUMBUS**—All industries....	690	32,560	480	1,278	2,834	1,217	26,751	No 28,673	Ap 25,052	28,960	23,598	5,266	44	52	99,383,222
2	Automobile bodies and parts.....	13	968	7	43	35	63	820	De 993	Ja 510	1,007	634	373	.....	.....	1,762,264
3	Automobile repairing.....	23	110	29	4	.....	3	74	Au [3] 79	Ja [3] 70	78	78	.....	.....	.....	134,660
4	Awnings, tents, and sails.....	3	31	1	2	5	2	21	Jy 32	Ja [3] 14	18	13	5	.....	.....	57,598
5	Boots and shoes, not including rubber boots and shoes.	9	2,059	1	34	96	56	1,872	De 1,973	Ja 1,799	1,961	1,057	904	.....	.....	7,046,498
6	Bread and other bakery products....	64	398	64	41	121	55	617	De 646	Fe 575	647	459	183	3	2	1,549,898
7	Brooms, from broom corn.....	6	21	8	.....	2	1	10	No [3] 11	Ja [3] 8	11	10	.....	1	.....	15,120
8	Cars and general shop construction and repairs by steam-railroad companies.	5	5,411	.....	29	492	34	4,856	De 5,187	Mh 4,435	5,187	5,144	43	.....	.....	4,316,648
9	Clothing, men's.....	4	47	6	.....	7	1	33	No [3] 45	Ja [3] 25	45	9	35	1	.....	31,300
10	Confectionery and ice cream.....	19	656	15	39	50	39	513	.....	.....	562	357	205	.....	.....	1,379,078
11	Confectionery.....	13	272	11	18	32	10	201	No 284	Jy 145	266	81	185	.....	.....	576,027
12	Ice cream.....	6	384	4	21	18	29	312	Je 376	Ja 272	296	276	20	.....	.....	803,051
13	Copper, tin, and sheet-iron work.....	10	270	8	13	18	20	211	De 283	Se 170	283	279	4	.....	.....	1,098,352
14	Electrical machinery, apparatus, and supplies.	6	84	3	8	8	7	58	De 69	Mh 51	70	49	21	.....	.....	162,353
15	Electroplating.....	3	26	2	2	1	.....	21	(1) 21	(1) 21	21	21	.....	.....	.....	11,468
16	Fertilizers.....	3	282	.....	10	15	5	252	Se 566	Ma 174	191	191	.....	.....	.....	1,954,690
17	Flavoring extracts.....	4	10	2	2	1	1	4	Je 6	Ja [3] 3	3	1	2	.....	.....	8,350
18	Food preparations, not elsewhere specified.	8	35	9	2	.....	1	23	Ma 28	De 14	25	14	11	.....	.....	88,623
19	Foundry and machine-shop products.	49	4,555	37	125	467	189	3,737	.....	.....	4,122	4,018	103	1	.....	17,098,828
20	Boiler shops.....	4	45	3	6	.....	4	32	Mh 40	No [3] 28	34	34	.....	.....	.....	86,449
21	Foundries.....	9	432	12	16	7	2	305	De 476	Fe 342	473	473	.....	.....	.....	565,924
22	Machine shops.....	36	4,078	22	103	460	183	3,310	Ja 3,761	Ap 3,069	3,615	3,511	103	1	.....	16,446,455
23	Lumber, planing-mill products, not including planing mills connected with sawmills.	14	294	10	30	24	6	224	No 269	Ja 161	264	262	1	1	.....	1,265,625
24	Marble and stone work, except slate.	6	40	4	3	4	.....	29	Ap 34	Ma 20	32	32	.....	.....	.....	128,421
25	Models and patterns, not including paper patterns.	9	60	12	3	.....	1	44	Je 51	Ap 36	49	49	.....	.....	.....	65,043
26	Patent medicines and compounds and druggists' preparations, including perfumery and cosmetics.	28	350	20	36	93	44	157	No 176	Ja [3] 143	172	58	114	.....	.....	810,098
27	Printing and publishing, book and job.	57	743	47	60	21	33	582	De 609	Ja 555	610	408	200	2	.....	1,373,453
28	Printing and publishing, newspapers and periodicals.	43	885	11	54	330	84	406	Mh 416	Jy [3] 403	405	358	32	15	.....	3,331,213
29	Shirts.....	5	40	7	1	2	1	29	Ap 32	Au 26	29	3	26	.....	.....	33,150
30	Slaughtering and meat packing.....	7	318	5	20	45	7	241	Fe 260	Au 229	244	240	4	.....	.....	1,122,645
31	Stoves and hot-air furnaces, including gas and oil stoves.	12	326	12	17	17	12	268	No 326	Ja 219	323	314	9	.....	.....	796,839
32	Trunks and valises.....	5	37	11	2	3	.....	21	Je 25	Jy 16	20	17	3	.....	.....	31,077
33	All other industries*.....	275	14,004	149	698	977	552	11,628	.....	.....	12,581	9,523	2,988	20	50	58,709,330

*All other industries embrace—

Agricultural implements	1	Butter	3
Aluminum manufactures	1	Card cutting and designing	1
Artificial limbs	2	Carpets, rag	3
Artificial stone products	4	Carriages and wagons, repair work only	2
Automobiles	4	Cars and general shop construction and repairs by electric-railroad companies	3
Bags, other than paper, not including bags made in textile mills	1	Cars, steam-railroad, not including operations of railroad companies	1
Baskets, and rattan and willow ware	1	Chemicals	1
Belting, leather	1	Cleansing preparations	1
Billiard tables and accessories	1	Clothing, women's	5
Bookbinding and blank-book making	4	Coal-tar products	1
Boot and shoe cut stock	1	Coffee, roasting and grinding	4
Boot and shoe findings	1	Coffins, burial cases, and undertakers' goods	5
Boxes, cigar	1	Cooperage, hogsheads and barrels	2
Boxes, shipping containers and set-up paper boxes	3	Cordials and flavoring sirups	2
Boxes, wooden packing, except cigar boxes	2	Dairymen's and poultrymen's supplies	3
Brass and bronze products	4	Dental goods, teeth	1
		Engraving, steel and copper plate, including plate printing	3
		Files	1
		Fire extinguishers, chemical	1
		Flags and banners	1
		Flour-mill and gristmill products	4
		Fur goods	2
		Furnishing goods, men's, neckwear	2
		Furniture	5
		Galvanizing	1
		Gas and electric fixtures	5
		Gas, illuminating and heating	1
		Gas machines and gas and water meters	1
		Glass	2
		Glass, cutting, staining, and ornamenting	3
		Gloves and mittens, leather	1
		Gloves and mittens, cloth, not including gloves made in textile mills	1
		Hair work	1
		Hand stamps	2
		Hardware	2
		Hats and caps, other than felt, straw, and wool	1
		House-furnishing goods, mops and dusters	1
		Ice, manufactured	5
		Instruments, professional and scientific	2
		Iron and steel, blast furnaces	1
		Iron and steel, steel works and rolling mills	1
		Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills	2
		Iron and steel, cast-iron pipe	1
		Iron and steel, doors and shutters	1
		Iron and steel, forgings, not made in steel works or rolling mills	5
		Iron and steel, welding	3

1	**DAYTON**—All industries.....	571	36,495	394	733	2,604	1,633	31,131	De 35,110	Fe 26,887	35,376	29,656	5,670	42	8	121,658,316
2	Automobile repairing.....	18	155	10	7	8	10	120	De 171	Fe 88	144	144	.....	.....	.....	202,801
3	Awnings, tents, and sails.....	5	26	6	.....	.....	1	19	Je [3] 28	Ja 11	18	8	10	.....	.....	43,671
4	Boxes, set-up paper boxes and cartons	5	479	.....	12	19	9	439	Ap 471	Ja 368	436	119	317	.....	.....	1,062,773
5	Brass, bronze, and copper products..	9	245	4	11	10	4	216	De 242	Fe 162	244	230	14	.....	.....	510,502
6	Bread and other bakery products....	57	732	67	16	75	44	530	No 608	Ja 367	592	379	212	1	.....	2,016,853
7	Carriages and wagons, including repairs.	3	19	3	1	1	.....	14	My 17	No [3] 12	12	12	.....	.....	.....	19,652
8	Cars and general shop construction and repairs by electric-railroad companies.	4	56	.....	.....	1	.....	55	Fe 60	Je 51	56	56	.....	.....	.....	97,497
9	Clothing, men's.....	7	356	2	8	16	47	283	De 335	Ap 244	335	49	286	.....	.....	542,719

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

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.						Electric horsepower generated in establishments reporting.
											Owned.					
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]	Rented.[2]	
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars. 4,686,532	*Dollars.* 6,315,585	*Dollars.* 30,978,549	*Dollars.* 290,773	*Dollars.* 529,088	*Dollars.* 5,764,347	*Dollars.* 108,739,276	*Dollars.* 3,979,963	*Dollars.* 184,021,849	*Dollars.* 71,302,610	66,292	25,906	565	4,488	.....	35,333	7,289
161,755	118,617	685,645	1,491	24,830	165,706	2,121,974	20,427	3,668,580	1,526,179	821	.....	.....	53	.....	768	.....
7,100	3,164	95,112	.....	16,335	3,612	132,874	7,176	326,513	186,463	148	.....	.....	33	.....	115	.....
6,021	10,354	23,012	.....	2,040	3,027	61,245	864	145,335	83,226	17	.....	.....	.....	.....	17	.....
227,771	534,481	1,700,171	.....	26,217	317,736	6,103,637	47,927	10,198,135	4,046,571	1,264	.....	.....	.....	.....	1,264	.....
125,136	255,320	599,599	20,285	32,829	187,748	3,021,593	70,030	5,203,881	2,112,258	1,057	140	.....	40	.....	877	149
.....	2,212	10,327	.....	660	289	37,731	331	67,037	28,975	22	.....	.....	19	.....	3	.....
75,278	911,571	5,873,499	.....	.....	.....	7,991,683	361,698	15,213,729	6,860,348	7,826	1,778	500	1,150	.....	4,398	3,446
.....	8,194	35,232	.....	1,650	117	88,710	620	160,900	71,570	6	.....	.....	.....	.....	6	.....
102,436	116,569	483,422	.....	17,946	77,018	1,302,162	66,130	2,575,127	1,206,835	1,837	390	.....	580	.....	867	114
50,040	54,281	141,698	.....	12,130	45,438	629,319	6,957	1,112,374	476,098	186	.....	.....	.....	.....	186	.....
51,496	62,288	341,724	.....	5,816	31,580	672,843	59,173	1,462,753	730,737	1,651	390	.....	580	.....	681	114
39,383	49,091	223,214	.....	6,119	12,757	555,123	12,330	848,266	280,813	463	.....	.....	36	.....	427	.....
18,647	15,311	57,557	1,630	1,530	6,279	166,706	1,743	338,575	170,121	44	.....	.....	.....	.....	44	.....
3,040	540	22,475	.....	1,020	124	11,872	900	55,604	42,832	93	.....	.....	93	.....	.....	.....
54,159	37,910	301,091	.....	.....	87,543	1,573,851	29,553	2,832,917	1,229,513	1,342	345	.....	.....	.....	997	422
3,120	600	4,829	.....	1,320	72	15,731	22	42,532	26,779	6	.....	.....	5	.....	1	.....
3,120	720	18,152	.....	3,975	747	188,913	1,572	242,672	52,187	53	.....	.....	10	.....	43	.....
677,445	1,261,506	5,219,686	4,732	20,313	1,346,442	7,893,582	478,218	18,632,901	10,256,101	6,215	1,595	55	664	.....	3,901	793
11,480	3,260	34,304	4,237	660	2,219	53,017	1,028	143,271	88,326	105	40	.....	.....	.....	65	.....
49,348	15,900	581,846	.....	1,500	109,150	437,563	41,928	1,487,967	1,008,476	200	.....	.....	.....	.....	200	.....
616,617	1,242,346	4,603,536	495	18,153	1,235,073	7,408,002	434,362	17,001,663	9,159,299	5,820	1,555	55	664	.....	3,546	793
66,972	37,921	281,382	.....	10,310	21,438	974,960	18,502	1,691,612	698,060	1,709	340	.....	90	.....	1,279	.....
4,560	4,980	45,910	.....	1,941	1,225	62,674	1,509	162,732	98,549	50	.....	.....	6	.....	44	.....
5,986	800	50,531	.....	2,910	2,500	20,597	1,142	133,664	111,925	57	.....	.....	.....	.....	57	.....
101,464	198,670	109,026	1,583	14,010	89,105	590,589	8,028	1,693,121	1,094,504	172	.....	.....	2	.....	170	.....
144,595	57,283	586,605	2,916	45,182	31,693	833,526	24,538	2,185,510	1,327,440	630	.....	.....	54	.....	576	.....
154,374	383,973	437,823	228,792	28,940	181,990	1,246,748	19,096	4,094,919	2,829,075	567	.....	.....	18	.....	549	.....
2,080	4,092	21,160	.....	3,044	1,152	60,654	404	117,092	55,974	10	.....	.....	.....	.....	10	.....
38,156	60,884	240,774	.....	2,780	33,130	5,819,002	38,041	6,516,428	659,385	1,110	910	.....	.....	.....	200	20
44,807	82,345	330,345	.....	6,460	18,471	598,387	11,661	1,133,658	523,610	380	.....	.....	32	.....	348	.....
4,160	2,000	18,839	.....	8,300	962	18,368	1,004	84,064	64,692	34	.....	.....	.....	.....	34	.....
2,614,367	2,156,477	13,503,131	29,344	238,827	3,173,464	67,241,334	2,756,342	105,656,345	35,658,619	40,359	20,408	10	1,603	.....	18,338	2,345

- Jewelry: 6
- Lamps, automobile: 2
- Leather goods, not elsewhere specified: 1
- Liquors, malt: 5
- Lithographing: 2
- Looking-glass and picture frames: 1
- Lubricating greases: 1
- Lumber and timber products: 1
- Mattresses and spring beds, not elsewhere specified: 3
- Millinery, lace goods, not elsewhere specified: 4
- Mineral and carbonated waters: 4
- Mirrors, framed and unframed, not elsewhere specified: 1
- Mucilage, paste, and other adhesives, not elsewhere specified: 2
- Musical instruments and materials, not specified: 1
- Musical instruments, organs: 1
- Musical instruments, pianos: 1
- Oil, composite: 1
- Oilcloth, enameled: 1
- Oleomargarine: 1
- Optical goods: 4
- Paints: 4
- Paper goods, not elsewhere specified: 2
- Paving materials: 1
- Petroleum, refining: 1
- Phonographs and graphophones: 1
- Photographic materials: 3
- Photo-engraving: 1
- Plumbers' supplies, not elsewhere specified: 1
- Printing and publishing, music: 1
- Pumps, not including power pumps: 1
- Pumps, steam and other power: 3
- Refrigerators: 1
- Regalia, and society badges and emblems: 3
- Saddlery and harness: 3
- Safes and vaults: 1
- Sausage, not made in slaughtering and meat-packing establishments: 1
- Saws: 2
- Scales and balances: 1
- Show cases: 4
- Signs, electric and other: 4
- Smelting and refining, not from the ore: 1
- Soap: 2
- Stationery goods, not elsewhere specified: 2
- Statuary and art goods: 1
- Steam fittings and steam and hot-water heating apparatus: 2
- Stereotyping and electrotyping: 2
- Structural ironwork, not made in steel works or rolling mills: 6
- Surgical appliances: 2
- Tobacco, cigars: 16
- Tools, not elsewhere specified: 6
- Toys and games: 4
- Type founding: 1
- Varnishes: 1
- Wall plaster and composition flooring: 1
- Washing machines and clothes wringers: 2
- Window and door screens and weather strips: 3
- Window shades and fixtures: 2
- Wirework, not elsewhere specified: 4
- Wood, turned and carved: 1
- Wooden goods, not elsewhere specified: 1
- Wool pulling: 1

4,990,567	5,304,287	39,680,372	236,569	836,486	6,398,815	76,193,383	2,267,085	174,990,607	96,530,139	52,749	16,597	2,395	848	38	32,871	17,262
27,630	13,818	156,023	50	10,137	8,228	315,817	7,536	617,463	294,110	172	.....	.....	10	.....	162	.....
.....	1,709	14,404	175	1,236	433	44,346	680	78,031	32,505	14	.....	.....	.....	.....	14	.....
59,496	39,872	274,233	400	4,800	32,753	508,275	9,425	1,256,869	739,169	364	100	.....	.....	.....	264	.....
80,731	17,263	273,794	.....	11,062	3,889	704,701	29,517	1,271,610	537,392	318	.....	.....	8	.....	310	.....
76,839	156,801	574,792	3,500	16,960	176,208	2,855,319	67,304	4,522,347	1,599,724	912	.....	.....	.....	.....	912	.....
1,347	867	18,294	.....	1,886	160	20,660	718	49,656	28,278	43	.....	.....	24	.....	19	.....
2,979	1,160	53,938	.....	.....	6,000	20,905	3,116	88,098	64,077	104	.....	.....	.....	.....	104	.....
57,438	67,668	184,495	.....	10,224	30,812	811,310	3,986	1,787,391	972,095	73	.....	.....	.....	.....	73	.....

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

TABLE 46.—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— Maximum month.	Number, 15th day of— Minimum month.		Male.	Female.	Male.	Female.	
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
	DAYTON—Continued.														*Dollars.*
1	Confectionery and ice cream	20	355	22	12	39	21	261	Se 344	Fe 216	323	135	173	15		985,591
2	Confectionery	12	252	14	9	35	16	178	Oc 256	Je 122	247	84	163			557,235
3	Ice cream	8	103	8	3	4	5	83	Jy 111	De 45	76	51	10	15		428,356
4	Copper, tin, and sheet-iron work	6	47	5	2	1	1	38	Ja 53	Ap 25	43	43				93,681
5	Foundry and machine-shop products	60	4,814	32	91	282	112	4,297	De 4,884	Fe 3,864	4,894	4,798	95	1		16,160,549
6	Furniture	7	483	3	12	20	16	432	De 488	Ja 354	488	429	56	3		1,087,347
7	Ice, manufactured	4	78	2	4	3	3	66	Jy 85	Ja 50	68	68				722,128
8	Iron and steel, tempering and welding.	5	29	8	3	2	1	15	Ma [3] 20	Ja [3] 9	18	18				42,890
9	Lumber, planing-mill products, not including planing mills connected with sawmills.	7	390	4	13	29	8	336	Oc 394	Ja 274	385	383	1	1		1,254,925
10	Marble and stone work, except slate	6	70	12	3	2	1	52	De [3] 61	Ma 41	54	54				153,739
11	Mattresses and spring beds, not elsewhere specified.	3	21	1	4		1	15	No 20	Ja 12	16	14	2			40,480
12	Mineral and carbonated waters	7	47	5	4	13	1	24	Jy 37	Ja 13	27	27				162,628
13	Models and patterns, not including paper patterns.	12	84	15			4	65	De 98	Ja 34	99	99				86,322
14	Printing and publishing, book and job.	30	340	25	18	16	18	263	De 285	Fe 249	288	188	98	2		558,161
15	Printing and publishing, newspapers and periodicals.	20	792	11	22	155	104	500	De 527	Je [3] 470	527	440	87			2,831,498
16	Pumps, power, other than steam	3	411		11	58	34	308	De 467	Ja 150	467	459	8			1,303,935
17	Slaughtering and meat packing	12	364	10	8	53	3	290	Ja 301	Oc 282	294	279	15			1,939,261
18	Stationery goods, not elsewhere specified.	4	548		7	87	56	398	No 434	Ja 356	437	305	132			2,045,416
19	Tobacco, cigars	29	1,164	27	12	14	9	1,102	Oc 1,198	Je 1,027	1,171	104	1,067			1,662,534
20	Tools, not elsewhere specified	36	1,336	20	41	40	35	1,200	De 1,475	Fe 900	1,473	1,404	58	11		2,048,802
21	Toys and games	8	242	4	11	4	3	220	Oc 337	Ja 34	305	134	164	6	1	368,683
22	Varnishes	4	77		5	15	8	49	Oc 58	Fe [3] 42	54	54				637,719
23	All other industries *	180	22,735	96	395	1,641	1,079	19,524			22,108	19,224	2,875	2	7	82,975,559

*All other industries embrace—

Airplanes, seaplanes, and airships, and parts 2
Agricultural implements 1
Aluminum ware 1
Artificial stone products 3
Automobile bodies and parts 12
Bags, other than paper, not including bags made in textile mills 1
Baskets, and rattan and willow ware 2
Blacking, stains, and dressings 1
Bookbinding and blank-book making 1
Boxes, cigar 1
Boxes, wooden packing, except cigar boxes 1
Brick, building 1
Brooms, from broom corn 2
Carriage and wagon materials 1
Cars and general shop construction and repairs by steam-railroad companies 3
Cash registers and parts 1
Chemicals 1
Chewing gum 1
Cleansing and polishing preparations 2
Clothing, women's 1
Coffee, roasting and grinding 3
Coffins, burial cases, and undertakers' goods 1
Dairymen's supplies, cream separators 1
Dental goods 2
Druggists' preparations 2
Electrical machinery, apparatus, and supplies 9
Electroplating 2
Emery and other abrasive wheels 1
Engines, steam, gas, and water 3
Engraving, steel and copper plate, including plate printing 1
Envelopes 2
Fertilizers 1
Files 1
Fire extinguishers, chemical 1
Flags and banners 2
Flavoring extracts 1
Flour-mill and gristmill products 2
Food preparations, not elsewhere specified 5
Fur goods 2
Gas machines 1
Glass, cutting, staining, and ornamenting 2
Gloves and mittens, cloth, not including gloves made in textile mills 2
Hand stamps 3
Hardware 2
Instruments, professional and scientific 1

1	**SPRINGFIELD**—All industries	206	15,459	152	537	1,155	1,351	12,264	De 13,153	Ap 11,549	13,143	11,117	2,013	6	7	54,582,930
2	Agricultural implements	6	1,947	1	80	234	57	1,575	Mh 1,719	Jy 1,443	1,654	1,625	29			10,823,782
3	Artificial stone products	4	20	5				15	Se 21	Ja [3] 10	15	15				19,100
4	Automobile repairing	8	31	11				20	Se 21	Mh 19	20	20				18,830
5	Bread and other bakery products	14	138	15	8	8	5	102	My [3] 104	Fe 97	104	87	17			274,951
6	Brooms, from broom corn	3	8	3	1			4	(4) 4	(4) 4	4	4				11,620
7	Cars and general shop construction and repairs by electric-railroad companies.	3	49		2	1		46	No 60	My 32	58	58				128,792
8	Copper, tin, and sheet-iron work	7	42	11	1		2	28	Je 36	Fe 19	33	33				52,128
9	Engines, steam, gas, and water	5	957	1	18	54	31	853	De 969	Ap 722	969	961	8			3,673,757
10	Foundry and machine-shop products	22	1,548	15	66	87	43	1,337	De 1,462	Ap 1,260	1,460	1,447	13			4,334,505
11	Models and patterns, not including paper patterns.	6	28	8			1	19	De 22	Mh [3] 16	22	22				14,931
12	Musical instruments, piano materials	3	543		18	13	4	508	De 587	Ja 391	587	584	3			1,903,632
13	Patent medicines and compounds	5	26	2	3	5	3	13	No [3] 15	Mh 10	15	3	10	1	1	145,217
14	Printing and publishing, book and job.	16	220	15	15	7	7	176	De 194	Je [3] 167	195	147	48			459,232
15	Tobacco, cigars	7	28	8				20	De 22	Mh 18	22	14	8			21,287
16	All other industries*	97	9,874	57	325	746	1,198	7,548			7,985	6,097	1,877	5	6	32,611,166

*All other industries embrace—

Automobile bodies and parts 4
Automobiles 2
Awnings, tents, and sails 2
Bookbinding and blank-book making 1
Boots and shoes, not including rubber boots and shoes 1
Boxes, set-up paper boxes 1
Brass and bronze products 1
Carpets, rag 1
Carriages and wagons 1
Cars and general shop construction and repairs by steam-railroad companies 2
Clothing, men's 1
Coffee, roasting and grinding 2
Coffins, burial cases, and undertakers' goods 3
Condensed milk 1
Confectionery 1
Dairymen's and poultrymen's supplies 1
Electrical machinery, apparatus, and supplies 4
Emery and other abrasive wheels 1
Fancy articles, metal novelties 2
Flour-mill and gristmill products 3
Furniture, wood, other than rattan and willow 1
Gloves and mittens, cloth, not including gloves made in textile mills 1
Hand stamps 1
Ice, manufactured 2
Instruments, professional and scientific 2
Iron and steel, steel works and rolling mills 1
Iron and steel, welding 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.				Rented.[2]	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																
Dollars.	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*	*Dollars.*							
39,533	47,471	217,990	500	20,838	26,159	896,080	23,611	1,473,323	553,632	590	.....	.....	.....	.....	590	.....
23,055	36,656	115,382	.....	13,215	20,878	508,304	6,566	807,123	292,253	259	.....	.....	.....	.....	259	.....
16,478	10,815	102,608	500	7,623	5,281	387,776	17,045	666,200	261,379	331	.....	.....	.....	.....	331	.....
4,680	2,080	48,332	.....	660	1,254	98,609	2,487	152,340	51,244	.....	.....	.....	.....	.....	.....	.....
769,922	526,600	5,753,976	32,181	42,199	517,560	5,221,522	530,417	15,782,525	10,030,586	10,400	3,895	145	120	.....	6,240	6,491
81,770	40,795	397,552	25,000	14,402	22,614	550,018	11,946	1,488,981	927,017	754	350	.....	.....	.....	404	.....
14,900	6,671	78,642	.....	2,473	11,265	26,586	72,559	310,376	211,231	1,296	1,200	.....	.....	.....	96	110
6,607	1,469	23,645	240	4,086	401	8,137	3,843	59,341	47,361	27	.....	.....	.....	.....	27	.....
130,482	32,065	407,993	.....	2,364	71,939	1,184,115	40,197	2,036,429	812,117	1,507	630	.....	232	.....	645	.....
11,584	4,698	43,315	2,128	2,082	948	240,526	2,903	266,498	23,069	93	.....	.....	.....	.....	93	.....
10,450	616	14,600	.....	1,380	2,301	61,581	777	116,902	54,544	30	.....	.....	.....	.....	30	.....
5,095	22,808	28,796	.....	3,796	7,787	142,649	6,393	287,846	138,804	72	10	.....	2	.....	60	.....
3,980	2,491	104,738	.....	3,911	508	28,102	2,517	222,645	102,026	95	.....	.....	.....	.....	95	.....
70,307	45,110	274,283	1,486	29,137	20,605	378,795	8,713	1,012,880	625,372	250	.....	.....	58	.....	192	.....
154,243	232,071	534,362	92,200	11,014	94,304	661,608	39,386	2,630,616	1,929,622	1,059	300	.....	.....	10	749	284
159,566	99,156	357,349	.....	15,766	171,065	1,135,927	15,510	2,064,211	912,774	305	.....	.....	.....	.....	305	.....
76,737	85,080	346,812	.....	540	49,766	7,399,113	80,185	8,414,683	935,385	1,352	713	.....	20	.....	619	194
101,806	220,581	431,007	.....	6,925	65,436	1,106,271	17,450	2,564,132	1,440,411	324	150	.....	.....	.....	174	164
79,682	34,570	764,490	.....	21,535	377,458	1,445,456	8,708	3,057,848	1,603,684	124	.....	.....	.....	.....	124	.....
335,963	114,790	1,896,174	47,976	42,105	52,805	678,071	37,112	3,785,457	3,070,274	993	.....	.....	26	.....	967	5
41,860	8,588	184,435	568	6,398	2,545	272,576	7,215	639,234	359,443	240	.....	.....	46	.....	194	.....
79,680	62,005	60,701	.....	.....	16,680	680,344	9,459	849,435	159,632	617	.....	.....	.....	.....	617	.....
2,511,260	3,415,324	26,161,207	30,165	548,570	4,626,882	48,695,464	1,223,415	118,103,440	68,184,561	30,621	9,249	2,250	302	28	18,792	10,014

Iron and steel, steel works and rolling mills	1	Patent medicines and compounds	12	Sausage, not made in slaughtering and meat-packing establishments	1	Stoves and hot-air furnaces	4
Jewelry	1	Perfumery and cosmetics	3	Saws	1	Structural ironwork, not made in steel works or rolling mills	1
Labels and tags	5	Phonographs and graphophones	2	Scales and balances	2	Surgical appliances	1
Lasts	1	Photographic materials	2	Screws, machine	2	Typewriters and supplies, carbon paper	1
Liquors, malt	3	Pickles and preserves	1	Screws, wood	1	Umbrellas and canes	1
Lumber and timber products	2	Plumbers' supplies, not elsewhere specified	1	Shirts	1	Vault lights and ventilators	1
Machine tools	2	Pottery, earthen and stone ware	1	Show cases	1	Washing machines and clothes wringers	1
Motorcycles, bicycles, and parts	1	Poultry, killing and dressing, not done in slaughtering and meat-packing establishments	1	Signs, other than electric	4	Wood, turned and carved	1
Musical instruments and materials, not specified	1	Pumps, not including power pumps	2	Soap	4		
Ordnance and accessories	2	Rubber tires, tubes, and rubber goods, not elsewhere specified	4	Steam fittings and steam and hot-water heating apparatus	1		
Paints	4	Saddlery and harness	1	Steel barrels, drums, and tanks, portable	1		
Paper and wood pulp	2			Stereotyping and electrotyping	2		
Paper goods, not elsewhere specified	1						

1,926,478	2,381,694	13,371,657	218,933	79,883	2,167,575	33,123,629	766,670	67,759,001	33,868,702	20,191	4,515	1,653	1,972	.....	12,051	4,490
226,327	231,058	1,633,249	.....	1,200	257,504	3,198,615	102,493	7,205,752	3,904,644	3,081	1,120	1,333	.....	.....	628	2,329
.....	.....	14,310	.....	.....	164	17,449	408	40,481	22,624	29	.....	.....	14	.....	15	.....
.....	.....	30,990	.....	3,100	323	11,107	1,453	62,581	50,021	18	.....	.....	6	.....	12	.....
16,381	16,111	118,075	.....	5,435	3,584	538,746	12,889	818,379	266,744	208	.....	50	15	.....	143	11
1,500	.....	2,490	.....	303	23	18,956	249	29,351	10,146	4	.....	.....	.....	.....	4	.....
3,950	1,050	56,463	.....	.....	3,145	22,589	4,817	92,014	64,608	230	.....	.....	.....	.....	230	.....
3,050	1,346	34,003	.....	1,606	514	69,215	715	133,815	63,885	12	.....	.....	.....	.....	12	.....
74,562	91,327	1,091,224	.....	.....	138,721	1,486,983	72,086	4,180,910	2,621,841	1,934	150	.....	595	.....	1,189	345
282,974	197,568	1,537,940	26,888	5,065	236,958	2,771,464	111,204	6,554,071	3,671,403	2,166	375	.....	322	.....	1,469	100
.....	250	29,532	.....	1,524	322	4,209	472	58,261	53,580	22	.....	.....	4	.....	18	.....
96,352	35,937	660,205	.....	.....	118,818	563,744	32,506	2,036,594	1,440,344	975	.....	.....	340	.....	635	.....
13,900	7,872	9,795	.....	1,170	5,806	69,170	650	180,828	111,008	13	.....	.....	.....	.....	13	.....
55,567	13,653	172,188	524	13,402	10,803	197,894	10,455	607,139	398,790	195	.....	.....	.....	.....	195	.....
.....	.....	10,230	.....	840	6,318	19,451	249	42,529	22,829	.....	.....	.....	.....	.....	.....	.....
1,150,915	1,785,522	7,970,963	191,521	46,238	1,384,572	24,134,037	416,024	45,716,296	21,166,235	11,304	2,870	270	676	.....	7,488	1,705

Leather, tanned, curried, and finished	1	Photo-engraving	1	Saddlery and harness	2	Structural ironwork, not made in steel works or rolling mills	1
Liquors, malt	2	Pickles and sauces	1	Safes and vaults	1	Suspenders, garters, and elastic woven goods	1
Lumber and timber products	1	Plumbers' supplies, not elsewhere specified	1	Signs and advertising novelties	1	Tools, not elsewhere specified	5
Lumber, planing-mill products, not including planing mills connected with sawmills	2	Pocketbooks	1	Slaughtering and meat packing	2	Toys and games	2
Machine tools	3	Printing and publishing, newspapers and periodicals	7	Stationery goods, not elsewhere specified	1	Washing machines and clothes wringers	2
Mattresses and spring beds, not elsewhere specified	1	Printing materials	1	Steam fittings and steam and hot-water heating apparatus	2	Wirework, not elsewhere specified	2
Mineral and carbonated waters	2	Pumps, not including power pumps	3	Stereotyping and electrotyping	1		
		Rubber tires, tubes, and rubber goods, not elsewhere specified	1	Stoves and hot-air furnaces	1		

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

TABLE 46.—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	**TOLEDO**—All industries	671	48,776	417	1,451	3,051	1,767	42,090	De 48,141	My 31,205	47,688	40,493	7,041	138	16	*Dollars.* 206,032,674
2	Artificial stone products	11	68	8	5	1	3	51	Se 79	Ja [3] 27	61	61	.....	.....	.....	199,498
3	Automobile bodies and parts	10	1,452	1	58	46	56	1,291	De 1,637	Je 875	1,638	1,502	136	.....	.....	5,730,336
4	Automobile repairing	3	40	1	4	3	.....	32	Je 34	Fe 30	31	31	.....	.....	.....	61,135
5	Bread and other bakery products	79	1,002	86	34	155	66	661	De 722	Mh 611	725	545	178	.....	2	2,098,848
6	Brooms, from broom corn	5	20	6	.....	.....	.....	14	Ja 16	De 10	14	12	2	.....	.....	19,200
7	Butter	4	204	.....	14	14	26	150	Je 171	Fe 119	165	147	18	.....	.....	1,088,552
8	Carriages and wagons, including repairs	3	17	5	.....	1	.....	11	No [3] 13	Ja [3] 10	11	11	.....	.....	.....	13,050
9	Cars and general shop construction and repairs, by steam-railroad companies	5	1,111	.....	56	30	3	1,022	Oc 1,082	Je 956	1,125	1,125	.....	.....	.....	1,833,702
10	Clothing, women's	8	796	.....	31	60	32	673	Au 794	My 508	620	217	403	.....	.....	1,390,676
11	Confectionery and ice cream	12	445	6	24	55	54	306	No 364	My 254	335	107	226	.....	2	936,718
12	Copper, tin, and sheet-iron work	14	116	1	14	2	7	92	Oc 120	Fe 67	105	105	.....	.....	.....	276,250
13	Electrical machinery, apparatus, and supplies	13	3,897	1	100	281	150	3,365	No 4,018	My 1,465	3,963	2,429	1,522	12	.....	14,406,052
14	Flour-mill and gristmill products	6	283	.....	18	19	10	236	Se 284	Fe 194	235	235	.....	.....	.....	3,805,684
15	Foundry and machine-shop products	50	6,076	36	245	316	174	5,305	De 5,757	Ja 5,021	5,685	5,411	168	106	.....	12,799,730
16	Furniture	9	246	8	17	12	10	199	De 218	Ap 173	222	220	2	.....	.....	581,176
17	Gloves and mittens, cloth, not including gloves made in textile mills	5	886	.....	19	19	27	821	Ja 1,126	My 643	1,087	141	946	.....	.....	1,993,544
18	Grease and tallow, not including lubricating greases	3	47	2	4	6	.....	35	De [3] 40	Ap 32	40	40	.....	.....	.....	371,240
19	House-furnishing goods, not elsewhere specified	5	48	1	7	3	8	29	Jy 41	Ja 18	26	20	6	.....	.....	94,027
20	Lumber, planing-mill products, not including planing mills connected with sawmills	15	399	6	31	27	7	328	Oc 360	Ja 283	346	346	.....	.....	.....	1,451,104
21	Marble and stone work, except slate	6	120	4	10	18	3	85	De 99	Se 76	99	99	.....	.....	.....	301,957
22	Mineral and carbonated waters	3	60	1	5	4	2	48	Au [3] 54	My 42	49	49	.....	.....	.....	199,830
23	Models and patterns, not including paper patterns	9	110	1	7	3	2	97	De 145	Ja 65	146	144	2	.....	.....	98,382
24	Patent medicines and compounds	19	84	15	7	17	11	34	Je 37	Mh 31	34	24	10	.....	.....	171,588
25	Printing and publishing, book and job	59	683	50	53	44	58	478	No 517	Ja 441	508	394	110	4	.....	1,441,468
26	Printing and publishing, newspapers and periodicals	19	667	7	35	177	110	338	Oc 357	Fe 314	352	332	20	.....	.....	1,601,272
27	Tobacco, cigars	22	202	23	1	.....	.....	178	Mh 200	No 150	154	51	103	.....	.....	117,662
28	Tools, not elsewhere specified	9	265	6	16	9	3	231	Fe 278	Je 189	238	237	.....	1	.....	420,038
29	All other industries*	260	29,432	142	636	1,729	945	25,980	.....	.....	29,674	26,458	3,180	15	12	152,529,955

*All other industries embrace—

Agricultural implements	1
Artificial flowers	1
Artificial limbs	1
Automobiles	2
Awnings, tents, and sails	4
Bags, paper, exclusive of those made in paper mills	1
Baking powders	1
Belting, leather	2
Bookbinding and blank-book making	4
Boxes, cigar	1
Boxes, paper and other, not elsewhere specified	5
Boxes, wooden packing, except cigar boxes	4
Brass, bronze, and copper products	8
Brick and tile, building brick, sewer pipe, and draintile	2
Brushes, toilet	2
Canning and preserving, vegetables	1
Card cutting and designing	2
Carpets, rag	1
Carriage and wagon materials	1
Carriages and sleds, children's	3
Cars and general shop construction and repairs by electric-railroad companies	1
Chemicals	2
Chewing gum	2
Cleansing and polishing preparations	3
Clothing, horse	1
Clothing, men's	1
Coal-tar products	1
Coffee and spice, roasting and grinding	5
Coke, not including gas-house coke	1
Cooperage, hogsheads and barrels	2
Corsets	2
Cotton goods	1
Crucibles	1
Cutlery and edge tools, axes and hatchets	1
Druggists' preparations	3
Dyeing and finishing textiles, exclusive of that done in textile mills	2
Electroplating	2
Engines, steam, gas, and water	1
Engraving, steel and copper plate, including plate printing	1
Engraving, wood	1
Fancy articles, not elsewhere specified	1
Fertilizers	1
Flags and banners	1
Flavoring extracts	1
Food preparations, not elsewhere specified	2
Fur goods	2
Gas and electric fixtures	3
Gas, illuminating and heating	1
Glass	3
Glass, cutting, staining, and ornamenting	4
Hair work	1
Hand stamps	2
Hardware, locks	1
Hats and caps, other than felt, straw, and wool	2
Ice, manufactured	3
Instruments, professional and scientific	3
Iron and steel, blast furnaces	1
Iron and steel, steel works and rolling mills	2
Iron and steel forgings, not made in steel works or rolling mills	1
Iron and steel, welding	2
Iron and steel, wrought pipe	3
Jewelry	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.				Rented.[2]	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]		
Dollars. 6,885,853	*Dollars.* 7,551,320	*Dollars.* 53,363,067	*Dollars.* 982,295	*Dollars.* 547,117	*Dollars.* 10,053,262	*Dollars.* 164,529,733	*Dollars.* 8,767,886	*Dollars.* 293,520,900	*Dollars.* 120,233,281	93,227	28,323	5,605	2,523	460	56,316	14,387	1
9,017	2,561	70,504	.....	693	1,451	148,986	3,567	293,280	140,733	80	.....	.....	22	.....	58	.....	2
179,669	115,378	1,640,738	.....	4,720	51,645	2,878,082	157,103	5,922,578	2,886,793	1,923	.....	.....	17	.....	1,906	.....	3
6,035	2,310	42,869	.....	5,570	675	62,798	1,958	139,975	75,219	45	.....	.....	.....	.....	45	.....	4
135,339	211,788	756,817	560	35,170	111,465	3,452,924	96,729	5,774,946	2,225,293	943	60	.....	.....	4	879	24	5
.....	.....	17,700	.....	.....	153	47,420	317	80,412	32,675	12	.....	.....	2	.....	10	.....	6
60,805	50,652	221,536	.....	20,686	19,589	3,423,387	46,506	4,324,608	854,715	354	95	.....	.....	.....	259	438	7
.....	1,196	16,497	386	1,500	397	22,009	1,112	54,935	31,814	30	.....	.....	.....	.....	30	.....	8
139,607	44,382	1,591,857	.....	.....	2,577	650,445	117,195	2,609,557	1,841,917	1,660	375	.....	.....	.....	1,285	883	9
190,346	216,456	720,179	6,000	18,560	57,408	2,325,465	9,766	4,103,468	1,828,237	163	.....	.....	.....	.....	163	.....	10
131,672	141,575	246,408	.....	27,779	108,033	1,704,752	43,306	2,776,615	1,028,557	599	.....	.....	.....	.....	599	.....	11
25,267	5,283	105,635	100	8,162	5,904	236,078	2,404	513,413	274,331	43	.....	.....	.....	.....	43	.....	12
580,798	676,632	3,186,553	.....	22,270	1,548,505	8,748,527	122,441	19,245,500	10,374,532	5,413	.....	.....	25	.....	5,388	.....	13
156,687	38,531	291,394	.....	120	164,725	11,430,618	85,418	13,432,512	1,916,476	2,723	2,340	35	.....	120	228	340	14
786,242	593,687	7,502,902	3,708	36,661	354,479	8,128,806	789,387	22,416,062	13,497,869	10,987	2,591	.....	379	.....	8,017	1,944	15
36,723	30,436	215,283	.....	5,459	8,533	285,466	11,018	763,156	466,672	370	60	.....	132	.....	178	.....	16
81,269	55,368	486,936	1,501	13,934	128,037	1,572,149	16,720	2,840,984	1,252,115	190	.....	.....	.....	.....	190	.....	17
10,239	7,042	53,849	.....	.....	13,124	145,882	37,213	359,646	176,551	256	230	.....	.....	.....	26	.....	18
15,085	11,155	29,165	.....	2,880	2,025	115,350	1,065	202,035	85,620	7	.....	.....	.....	.....	7	.....	19
110,041	40,741	368,227	.....	3,018	28,583	1,490,796	23,059	2,238,609	724,754	1,814	675	.....	20	.....	1,119	.....	20
22,703	34,037	165,739	530	3,061	3,238	278,134	3,435	659,032	377,463	167	.....	.....	70	.....	97	.....	21
9,550	8,730	66,112	.....	3,080	6,215	183,035	3,128	337,838	151,675	125	20	.....	.....	.....	105	.....	22
21,910	4,210	168,884	.....	7,362	605	54,076	3,686	323,158	205,396	78	.....	.....	.....	.....	78	.....	23
16,736	57,549	39,109	.....	9,466	3,437	111,302	2,980	408,420	294,138	91	.....	.....	.....	.....	91	.....	24
148,981	90,706	547,713	48,893	55,568	15,751	851,770	22,290	2,279,574	1,405,514	578	.....	.....	2	.....	576	.....	25
107,204	360,787	493,896	672,893	17,363	141,756	1,032,241	18,780	3,514,811	2,463,790	621	.....	.....	.....	.....	621	.....	26
8,950	.....	137,336	.....	4,144	55,491	203,419	1,220	476,719	272,080	9	.....	.....	.....	.....	9	.....	27
59,239	19,808	303,828	.....	10,167	8,960	95,394	7,925	596,299	492,980	213	.....	.....	29	.....	184	.....	28
3,830,339	4,730,320	33,875,401	247,724	229,724	7,210,501	114,849,222	7,128,158	196,772,752	74,795,372	63,733	21,877	5,570	1,825	336	34,125	10,768	29

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

Knit goods	1
Liquors, malt	4
Lithographing	3
Looking-glass and picture frames	1
Machine tools	3
Mattresses and spring beds, not elsewhere specified	2
Millinery, trimmed hats and hat frames, etc	1
Mirrors, framed and unframed	2
Motorcycles, bicycles, and parts	1
Mucilage and paste	1
Musical instruments and materials, not specified	1
Musical instruments, organ materials	1
Oil, linseed	2
Oil, composite	3
Optical goods	2
Paints	3
Paper goods, not elsewhere specified	2
Paving materials	2
Peanuts, grading, roasting, cleaning, and shelling	1
Pens, fountain and stylographic	2
Perfumery and cosmetics	3
Petroleum, refining	2
Photographic materials	1
Photo-engraving	5
Pickles and sauces	3
Plumbers' supplies, not elsewhere specified	2
Pottery, earthen and stone ware	1
Refrigerators	1
Roofing materials	1
Rubber tires, tubes, and rubber goods, not elsewhere specified	4
Saddlery and harness	4
Safes	1
Sausage, not made in slaughtering and meat-packing establishments	1
Saws	1
Scales and balances	1
Screws, machine	1
Shipbuilding, steel	1
Shipbuilding, wooden, repair work only	3
Shirts	2
Show cases	1
Signs and advertising novelties	3
Slaughtering and meat packing	6
Soap	1
Springs, steel, automobile	1
Stamped ware	5
Steam fittings and steam and hot-water heating apparatus	2
Steel barrels, drums, and tanks, portable	1
Stencils and brands	1
Stereotyping and electrotyping	2
Stoves and hot-air furnaces	3
Structural ironwork, not made in steel works or rolling mills	6
Surgical appliances	2
Tinware, not elsewhere specified	1
Tobacco, chewing and smoking	2
Toys and games	5
Trunks and valises	1
Umbrellas and canes	1
Varnishes	3
Vinegar and cider	2
Wall plaster and composition flooring	2
Waste	1
Wheelbarrows	1
Window and door screens	1
Wirework, not elsewhere specified	2
Wood preserving	2
Wooden goods, not elsewhere specified	3

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

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

	INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY. Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc. Male.	Clerks, etc. Female.	Wage earners. Average number.	Wage earners. Number, 15th day of— Maximum month.	Wage earners. Number, 15th day of— Minimum month.	WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY. Total.	16 and over. Male.	16 and over. Female.	Under 16. Male.	Under 16. Female.	Capital.
	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
1	**YOUNGSTOWN**—All industries	239	23,047	200	500	2,045	888	19,414	Se 22,303	Oc 10,916	20,522	19,621	895	6	.....	*Dollars.* 186,774,621
2	Artificial stone products	7	22	4	3	.....	1	14	Je [3] 18	Ja [3] 7	14	14	.....	.....	.....	34,760
3	Automobile repairing	13	146	8	2	4	8	124	De 139	Mh 110	137	134	3	.....	.....	442,335
4	Bread and other bakery products	44	348	59	11	27	13	238	Jy 246	Mh 231	249	212	36	1	.....	610,173
5	Confectionery and ice cream	11	130	10	14	6	32	68	Je 85	Fe 42	73	51	22	.....	.....	415,672
6	Foundry and machine-shop products	15	1,419	5	88	96	31	1,204	Ja 1,309	My 976	1,381	1,328	53	.....	.....	10,988,101
7	Marble and stone work, except slate	4	33	4	2	1	1	25	Jy 38	Ja 13	22	22	.....	.....	.....	112,351
8	Models and patterns, not including paper patterns	5	29	6	4	.....	1	18	Oc [3] 32	Fe 9	27	27	.....	.....	.....	58,414
9	Patent and proprietary medicines	4	12	4	.....	.....	1	7	([4]) 7	([4]) 7	5	2	3	.....	.....	18,660
10	Printing and publishing	28	495	32	34	68	66	295	De 313	Ja 275	313	256	54	3	.....	1,077,743
11	All other industries*	108	20,413	68	347	1,843	734	17,421	.....	.....	18,301	17,575	724	2	.....	173,016,412

*All other industries embrace—

Artificial limbs	2	Cars and general shop construction and repairs by electric-railroad companies	1
Automobile bodies and parts	3	Cars and general shop construction and repairs by steam-railroad companies	1
Automobiles	1	Cars, steam-railroad, not including operations of railroad companies	1
Baskets, and rattan and willow ware	1	Chemicals	1
Brass, and bronze products	1	Cleansing preparations	2
Brooms, from broom corn	1	Clothing, men's	2
Butter	2	Coal-tar products	2
Carpets, rag	1	Coffee, roasting and grinding	1
		Coke, not including gas-house coke	1
		Copper, tin, and sheet-iron work	5
		Dental goods	2
		Electrical machinery, apparatus, and supplies	3
		Electroplating	1
		Engraving, steel and copper plate, including plate printing	1
		Flour-mill and gristmill products	1
		Food preparations, not elsewhere specified	2
		Furniture, metal	1
		Gas and electric fixtures	3
		Gas, illuminating and heating	1
		Grease and tallow, not including lubricating greases	1
		Hand stamps	1
		Hardware, locks	1
		Hats and caps, other than felt, straw, and wool	1

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

1	ALLIANCE	74	6,176	70	146	622	221	5,117	Ja 5,898	De 4,480	4,652	4,298	354	.....	.....	23,907,795
2	ASHTABULA	62	4,509	45	114	120	58	4,172	Au 4,485	Oc 3,925	4,166	3,949	216	1	.....	10,766,883
3	BARBERTON	32	5,829	18	167	674	208	4,762	Ja 5,661	Je 4,364	5,086	4,659	427	.....	.....	33,880,212
4	BELLAIRE	45	2,495	38	71	70	39	2,277	Au 2,734	No 1,906	2,881	2,456	420	4	1	8,994,616
5	BUCYRUS	43	2,107	35	79	74	58	1,861	Ja 2,421	Ap 1,637	2,282	2,112	169	1	.....	7,506,268
6	CAMBRIDGE	32	2,034	21	69	117	45	1,782	De 1,882	Fe 1,654	1,899	1,749	145	5	.....	4,213,735
7	CHILLICOTHE	35	1,893	35	99	66	55	1,638	Je 1,996	Mh 1,389	1,864	1,496	362	4	2	5,164,695
8	COSHOCTON	45	2,344	29	103	167	86	1,959	Se 2,098	Ja 1,772	2,090	1,364	722	4	.....	5,311,902
9	CUYAHOGA FALLS	30	998	27	50	86	51	784	Au 899	Ja 700	870	821	39	10	.....	4,906,690
10	EAST CLEVELAND	17	127	13	14	4	8	88	Ja 95	No 81	91	70	21	.....	.....	232,933
11	EAST LIVERPOOL	67	4,653	40	162	55	85	4,311	Oc 4,518	Fe 4,116	4,464	3,174	1,261	24	5	7,602,589
12	ELYRIA	75	5,132	42	155	170	175	4,590	Ja 3,843	De 5,555	5,577	4,695	879	3	.....	21,756,093
13	FINDLAY	75	2,012	66	91	59	81	1,715	De 1,900	Mh 1,555	1,965	1,408	532	7	18	4,984,226
14	FREMONT	53	3,409	32	94	220	64	2,999	No 3,283	Ap 2,783	3,298	2,587	709	2	.....	9,935,870
15	HAMILTON	130	9,704	113	270	521	247	8,553	Au 9,251	Fe 7,927	9,178	8,043	1,124	11	.....	33,678,213
16	IRONTON	52	2,238	37	103	72	55	1,971	Oc 2,217	Jy 1,827	2,147	1,725	382	40	.....	10,819,350
17	KENMORE	7	153	7	5	1	5	135	Jy 139	Ja [3] 130	137	129	8	.....	.....	553,951
18	LAKEWOOD	33	2,163	24	34	164	120	1,821	De 2,225	Ap 1,610	2,226	1,914	312	.....	.....	8,170,514
19	LANCASTER	43	2,286	30	53	133	46	2,024	De 2,083	Je 1,952	2,241	1,745	495	1	.....	5,411,591
20	LIMA	108	5,726	98	150	412	165	4,901	Ja 5,619	Se 4,080	5,647	4,012	1,565	24	46	18,347,876
21	LORAIN	55	12,622	40	208	503	134	11,677	Mh 12,323	Jy 11,003	12,987	12,866	85	10	6	130,835,811
22	MANSFIELD	132	5,892	120	183	605	273	4,711	My 4,321	De 5,239	5,001	3,967	1,029	5	.....	21,840,929
23	MARIETTA	59	1,649	55	76	127	106	1,285	De 1,670	Fe 925	1,720	1,522	195	2	1	5,585,807
24	MARION	70	4,852	43	151	348	185	4,125	No 4,257	Je 3,990	4,319	3,774	512	4	29	17,221,927
25	MARTINS FERRY	40	1,766	30	76	111	32	1,517	Fe 2,293	Oc 339	1,804	1,725	77	2	.....	7,083,260
26	MASSILLON	80	2,566	77	125	97	114	2,153	Je 2,271	Fe 2,039	2,353	2,126	219	5	3	43,336,957
27	MIDDLETOWN	56	7,529	38	212	542	295	6,442	De 6,698	My 6,164	6,636	5,475	1,159	2	.....	59,628,309
28	NEW PHILADELPHIA	43	1,426	33	37	72	37	1,247	Oc 1,397	Ap 1,028	1,381	1,244	128	8	1	4,025,171
29	NEWARK	70	5,077	67	140	148	152	4,570	De 4,963	Jy 4,150	4,967	4,330	624	6	7	15,056,227
30	NILES	40	3,257	23	95	114	80	2,945	Ja 3,770	Oc 1,026	3,444	3,312	130	2	.....	14,834,187
31	NORWOOD	70	9,682	49	290	606	454	8,283	De 9,222	Ap 7,615	9,178	7,686	1,491	1	.....	36,511,561
32	PIQUA	66	3,907	40	140	335	99	3,293	De 3,809	Jy 2,907	3,818	2,651	1,163	3	1	12,586,017
33	PORTSMOUTH	60	6,701	45	270	213	259	5,914	De 6,860	My 5,365	6,886	5,061	1,604	200	21	22,282,655
34	SALEM	36	2,609	17	119	136	100	2,237	De 2,565	Mh 2,040	2,500	2,387	113	.....	.....	9,593,287
35	SANDUSKY	115	4,202	92	222	283	158	3,447	De 3,781	Je 3,241	4,055	3,369	675	11	.....	18,138,900
36	STEUBENVILLE	57	4,328	54	196	157	66	3,855	Se 4,803	Oc 1,262	4,826	4,560	241	20	5	35,341,250
37	TIFFIN	75	2,619	90	71	130	115	2,213	De 2,430	My 2,084	2,403	2,136	263	.....	4	7,751,130
38	WARREN	96	3,036	76	148	187	102	2,433	De 2,802	My 2,177	2,847	2,212	629	4	2	11,229,221
39	ZANESVILLE	97	3,490	74	129	167	106	3,014	Fe 3,117	Ap 2,847	3,318	2,557	719	28	14	10,137,023

[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.
										Total.	Owned.				Rented.[2]	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes Federal, state, county, and local.	Principal materials.	Fuel and rent of power.				Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power.[1]		
Dollars. 2,225,108	*Dollars.* 5,508,127	*Dollars.* 38,319,382	*Dollars.* 60,703	*Dollars.* 167,449	*Dollars.* 6,614,074	*Dollars.* 143,192,238	*Dollars.* 19,906,479	*Dollars.* 241,458,370	*Dollars.* 78,359,653	303,887	185,172	61,507	35,811	.....	21,397	70,972	1
6,650	1,080	17,342	.....	720	318	24,150	1,785	69,703	43,768	66	.....	.....	.....	.....	66	.....	2
25,365	12,861	171,975	.....	10,915	3,371	144,904	7,853	425,423	272,666	159	.....	.....	1	.....	158	.....	3
59,385	49,683	362,279	.....	32,148	51,099	1,660,133	39,630	2,712,504	1,012,741	319	.....	.....	.....	.....	319	.....	4
44,224	30,890	109,860	.....	17,820	12,982	401,845	15,816	833,929	416,268	579	.....	.....	.....	.....	579	.....	5
333,422	212,638	1,954,834	3,311	460	622,248	4,453,577	183,902	9,604,195	4,966,716	3,753	1,245	.....	20	.....	2,488	3,964	6
5,387	1,458	27,863	.....	2,242	1,155	38,265	1,917	104,442	64,260	72	50	.....	15	.....	7	.....	7
13,045	1,287	40,441	770	900	611	23,417	1,304	112,428	87,707	56	.....	.....	.....	.....	56	.....	8
.....	312	7,152	.....	2,331	361	13,462	108	26,539	12,909	7	.....	.....	.....	.....	7	.....	9
124,661	195,723	425,068	40,274	35,508	56,073	513,941	11,716	2,082,236	1,556,579	482	.....	.....	.....	.....	482	.....	10
1,612,969	5,002,192	35,202,568	16,348	64,405	5,865,856	135,918,544	19,642,448	225,486,971	69,925,979	298,394	183,877	61,507	35,775	.....	17,235	67,008	11

Ice, manufactured..... 2
Ink, writing..... 1
Iron and steel, blast furnaces..... 4
Iron and steel, steel works and rolling mills..... 7
Iron and steel forgings, not made in steel works or rolling mills..... 1
Iron and steel, welding..... 2
Iron and steel, wrought pipe..... 1
Liquors, malt..... 2
Lumber, planing-mill products, not including planing mills connected with sawmills..... 6
Mattresses and spring beds, not elsewhere specified..... 2
Mineral and carbonated waters..... 5
Minerals and earths, ground or otherwise treated..... 1
Mirrors, framed and unframed, not elsewhere specified..... 1
Musical instruments and materials, not specified..... 1
Optical goods..... 2
Paints..... 1
Pickles and sauces..... 1
Rubber tires, tubes, and rubber goods, not elsewhere specified..... 1
Saddlery and harness..... 1
Sausage, not made in slaughtering and meat-packing establishments. 1
Signs, other than electric..... 1
Slaughtering and meat packing..... 1
Stoves and hot-air furnaces..... 1
Structural ironwork, not made in steel works or rolling mills..... 5
Tobacco and cigars..... 6
Tools, not elsewhere specified..... 1
Wall plaster and composition flooring 2

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

508,526	1,461,478	5,769,253	6,103	14,078	1,449,914	14,029,769	759,668	32,871,087	18,081,650	12,481	7,232	.....	127	.....	5,122	8,803	1
412,047	278,544	5,812,960	445	11,568	1,346,950	10,660,064	308,804	23,098,509	12,129,641	9,013	5,933	.....	984	.....	2,096	3,305	2
574,688	1,370,864	6,261,269	57,074	2,619	746,073	12,622,825	2,072,914	27,713,226	13,017,487	29,000	18,127	8,117	37	.....	2,719	16,659	3
241,042	182,841	2,728,920	14,257	8,387	158,851	8,700,641	1,227,871	14,502,401	4,573,889	15,387	12,472	1,020	530	.....	1,365	2,804	4
257,308	169,258	2,237,599	.....	36,852	137,069	4,245,249	155,680	8,435,746	4,034,817	5,590	2,405	90	614	.....	2,481	1,205	5
182,907	208,225	3,037,727	550	5,320	180,790	5,549,363	303,804	11,226,809	5,373,642	5,160	4,825	.....	102	.....	233	1,249	
216,694	125,336	1,840,121	.....	8,663	113,495	4,090,050	250,169	7,667,182	3,326,963	5,036	3,350	1,155	362	.....	169	2,586	7
328,088	346,719	1,652,477	6,514	5,575	194,097	3,688,522	184,147	7,684,762	3,812,093	5,439	1,670	.....	453	95	3,221	210	8
199,131	173,883	1,091,229	9,862	2,895	196,309	2,929,652	110,385	5,820,347	2,789,310	4,193	513	.....	225	547	2,908	762	9
26,065	6,009	103,968	.....	7,689	2,057	181,456	9,491	420,505	229,558	217	80	.....	.....	.....	137	.....	10
480,562	235,251	4,545,720	648,544	20,381	392,315	3,902,922	988,158	12,501,181	7,610,101	5,911	2,674	.....	648	.....	2,589	870	11
620,300	485,496	6,028,980	2,531,024	17,124	1,027,463	9,831,280	396,334	25,191,454	14,963,840	14,481	5,870	.....	529	560	7,522	3,782	12
223,549	129,406	1,543,118	14,765	9,287	239,012	4,677,153	150,608	7,924,282	3,096,521	4,098	1,587	.....	469	.....	2,042	88	13
341,136	410,585	3,113,882	.....	15,115	207,920	5,106,358	331,306	12,915,095	7,477,431	5,752	1,655	.....	487	.....	3,610	622	14
1,259,875	927,192	10,094,428	32,170	66,110	2,372,355	21,631,260	1,006,182	47,024,031	24,386,589	27,596	18,097	3,950	261	.....	5,288	113	15
299,660	163,252	2,252,265	3,053	12,985	515,514	5,595,289	3,241,553	14,071,850	5,235,008	10,968	10,739	200	825	.....	5,204	1,035	16
22,100	8,864	166,222	.....	1,730	4,884	593,697	10,684	844,303	239,922	391	75	.....	.....	.....	316	.....	17
111,609	366,363	2,253,919	5,875	15,97	106,013	3,578,482	274,097	7,602,803	3,750,224	2,435	300	.....	460	.....	1,675	1,575	18
188,754	490,964	2,033,300	400	4,594	399,182	6,576,408	155,899	11,478,883	4,746,576	3,189	1,415	.....	548	.....	1,226	128	19
492,077	820,969	5,292,537	719	48,888	1,300,865	12,312,811	430,480	23,638,764	10,895,473	11,075	6,091	105	173	.....	4,706	6,212	20
856,896	1,192,994	22,955,023	.....	11,030	4,687,397	53,022,364	12,972,401	116,908,616	50,913,851	148,253	95,614	11,800	12,259	.....	28,580	46,776	21
730,884	1,255,240	5,569,635	1,040	41,371	1,068,371	16,897,756	461,382	31,877,551	14,518,413	9,123	1,116	.....	1,038	.....	6,969	261	22
239,679	177,204	1,213,003	297,519	18,335	322,033	2,756,895	94,963	5,917,469	3,065,611	3,716	1,365	.....	402	.....	1,949	6	23
541,326	770,899	4,831,217	200	17,909	845,923	9,927,709	446,221	20,712,973	10,339,043	9,601	7,052	.....	626	.....	1,923	3,579	24
221,762	191,789	2,731,599	12,066	6,936	312,136	9,595,214	676,853	15,402,280	5,130,213	11,355	10,196	675	110	1	373	2,806	25
476,238	290,820	2,714,641	62,150	15,377	367,365	6,834,527	239,300	13,984,871	6,911,044	9,931	2,750	.....	429	.....	6,752	1,242	26
1,239,186	1,133,212	8,728,511	50	26,267	8,878,829	33,551,937	2,135,275	62,838,289	27,151,077	56,386	40,088	13,356	311	.....	2,631	40,850	27
101,711	139,733	1,912,441	464	3,456	210,112	4,617,980	233,693	8,445,658	3,593,985	4,424	3,550	.....	161	2	711	1,229	28
415,349	379,018	4,532,104	34,950	22,940	414,839	7,006,311	1,265,315	16,563,149	8,201,523	10,314	3,203	.....	1,953	.....	5,158	2,061	29
405,515	316,058	4,559,036	.....	7,878	567,269	9,232,095	843,779	18,358,773	8,282,899	16,834	11,645	.....	122	.....	5,067	4,442	30
1,357,160	1,588,938	8,148,787	463	17,351	4,020,036	19,816,624	406,246	47,947,183	27,724,313	16,218	13,061	.....	642	.....	2,515	20,574	31
562,752	570,511	3,037,223	100	18,492	757,204	10,764,491	190,536	19,921,345	8,966,318	7,212	3,877	.....	329	.....	3,006	963	32
825,097	871,776	6,906,854	113,007	10,039	1,403,872	17,420,921	2,756,835	36,645,736	16,467,980	22,392	13,978	6,328	795	.....	1,291	3,877	33
422,525	408,245	3,070,379	.....	3,725	447,033	4,016,367	204,234	11,069,550	6,848,949	7,076	2,500	585	458	.....	3,533	2,538	34
772,595	532,139	3,665,754	.....	118,437	752,211	10,082,968	576,077	19,248,571	8,588,926	15,949	7,770	618	922	.....	6,639	889	35
627,368	310,890	6,689,050	3,620	21,989	3,531,734	14,231,884	2,143,866	30,903,344	14,527,594	44,531	25,263	3,745	1,356	.....	14,167	1,890	36
240,509	269,169	2,438,691	17,625	14,148	499,530	4,434,827	315,647	10,516,369	5,765,895	3,748	1,142	6	588	235	1,777	262	37
492,471	405,570	3,273,503	6,517	46,190	819,245	11,596,698	333,885	19,747,395	7,816,812	6,083	2,330	160	84	.....	3,509	761	38
388,345	378,282	2,941,594	26,520	22,867	277,646	6,831,825	595,464	13,437,777	6,010,488	7,557	4,683	.....	381	.....	2,493	96	39

[3] Same number reported for one or more other months.
[4] Same number reported throughout the year.
[5] Excludes Cleveland Heights and East Youngstown to avoid disclosure of individual operations.

MINES AND QUARRIES—OHIO.

EXPLANATION OF TERMS.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

STATISTICS FOR THE STATE.

Ohio, which ranks thirty-fifth among the states in size (land area, 40,740 square miles) and fourth in population (5,759,394 in 1920), ranked seventh in value of mineral products for 1919. The state ranked fourth in total number of persons engaged in the mining industries and in the average number of wage earners employed.

The gross value of mineral products for the state in 1919 was $134,518,505. Deducting from this gross value $3,092,567, the value of natural gas sold by some producers for use as material and for resale by others, leaves $131,425,938, the net value of products, an increase of 125.1 per cent as compared with the corresponding value reported at the census of 1909.

Increases in wages, cost of supplies and materials, fuel and power, and in the value of products shown in Table 1, the comparative summary for 1919 and 1909, although perhaps largely due to general price increases, were also in part due to growth of the mining industries. The progress of the mining industries in Ohio is better indicated by the moderate increase in the number of enterprises and number of individual mines and quarries and wells operated. The small decrease in the average number of wage earners, shown in Table 1, is due to unemployment in the coal-mining industry in November, 1919. With normal employment in the coal industry the average number of wage earners employed in all mining industries for 1919 would have shown slight increase over 1909. The addition of Federal income and excess-profits taxes since 1909 will account for the large increase in taxes.

The industries reported for 1919, ranked according to value of products, were coal mining, petroleum and natural-gas production, limestone quarrying, sandstone quarrying, clay mining, and gypsum mining. The production of salt was an important mineral industry in Ohio in 1919, but was not included in the census of mines and quarries. Those industries for which the statistics can be shown without disclosure of individual operations are ranked by value of products in Table 2.

Four industries, coal, petroleum and natural gas, limestone, and sandstone, together reported 98.9 per cent of the total value of products and 98.8 per cent of the total number of wage earners employed in mining and quarrying in Ohio in 1919.

The principal mining industry, coal, reported products valued at $77,988,602, which was 58 per cent of the total value of products of all mining industries in the state. Ohio ranked fourth among the states in value of products of coal mines. The coal-producing area of this state is part of the Northern Appalachian Coal Province, which extends into adjoining states. In Ohio it covers approximately 12,500 square miles in eastern and southeastern counties, 28 of which reported production in 1919.

The petroleum and natural-gas industry ranked second in importance, with an output valued at $42,390,958 (net). Ohio ranked seventh among the states in this industry. The petroleum and natural-gas operations in Ohio were in two fields—the Appalachian Field in the eastern half of the state, from which 36 counties reported production; and the Lima-Indiana Field in the northwestern part of the state, from which 14 counties reported production.

In 1919 limestone held third rank among the industries in the state and sandstone fourth. In both these industries Ohio ranked second among the states with products valued at $6,742,496 and $2,759,352, respectively. The limestone operations were well distributed over the state and were reported from 32 counties, whereas the sandstone quarrying was reported from only 12 counties in the eastern half of the state.

In addition to the products indicated by the industry designations by-products were reported as follows: Twelve clay enterprises produced coal; one enterprise, classified as a limestone operation, also mined coal; two limestone mining enterprises reported production of lime; ten coal enterprises produced clay, and five produced pyrite. The aggregate value of these by-products, together with other unspecified products and receipts for power sold and miscellaneous work or services for other enterprises, amounting to $976,086, has been included in the total value of products reported for the industries. The statistics do not include data on the mining of clay or of coal, incidental to clay mining, when these were mined by manufacturers of clay products for use in their plants at the mines.

Operations on nonproductive mineral properties were reported by a few enterprises in Ohio in 1919. These operations for development were negligible as compared with the producing enterprises.

The corporate form of organization was most common among enterprises in the mining industries in Ohio in 1919. As shown in Table 3, corporations conducted 39.7 per cent of all enterprises, a greater percentage than that shown for any other form of

organization. They employed 91.9 per cent of the total number of wage earners and reported 89.6 per cent of the total value of products. The preponderance of corporations is most marked in the coal industry in which they operated 57.5 per cent of the enterprises, employed 93.4 per cent of the total number of wage earners, and reported 93.8 per cent of the total value of products, and is least marked in the petroleum and natural-gas industry, in which they operated only 26.8 per cent of the total number of enterprises, but employed 78.6 per cent of the total number of wage earners and reported 81.3 per cent of the total value of products.

Table 4 shows the relatively large number of small enterprises as measured by the number of wage earners employed. Of the total number of enterprises in Ohio, 94.9 per cent were in classes having no wage earners or fewer than 101, and such enterprises employed only 37 per cent of the total number of wage earners. On the other hand, enterprises employing more than 100 wage earners constituted only 5.1 per cent of the total number of enterprises but employed 63 per cent of the total number of wage earners. Similar relations are also shown in Table 4 for the coal mining and quarrying industries.

Table 5 shows that in a majority of enterprises employing wage earners and for more than 80 per cent of the total number of wage earners the prevailing hours of labor were 44 to 53 per week. For a considerable number of enterprises and wage earners the prevailing hours were 54 to 62 per week. Table 5 also shows that in the coal-mining industry the hours of labor per week were most commonly 44 to 53, in the quarrying industries 54 to 62, and in the petroleum and natural-gas industry also 54 to 62, but in this industry a considerable number of enterprises, employing relatively very few wage earners, reported the prevailing hours as less than 35 per week.

The statistics for wage earners given in Table 6, showing the changes in the number employed month by month, reflect conditions prevailing in the industries during the census year. The extremely low minimum in the coal-mining industry in November was the result of the great strike. This figure is not only extremely low as compared with the number employed in other months but is abnormal in that the minimum employment in the coal-mining industry in Ohio more commonly occurs in the spring or summer months. As the statistics for coal mining dominate those for the other industries, the month of minimum employment shown for all industries combined in Table 6 is also abnormal.

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

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

	MINING INDUSTRIES.		Per cent of increase.[1]		MINING INDUSTRIES.		Per cent of increase.[1]
	1919	1909			1919	1909	
Number of enterprises	2,283	1,876	21.7	Capital	$256,057,996	$161,324,529	58.7
Number of mines and quarries	1,064	964	10.4				
Number of petroleum and natural-gas wells	35,440	35,067	1.1	Principal expenses:			
Number of natural-gas gasoline plants	53	(2)	.....	Salaries	8,042,224	2,774,084	189.8
				Wages	58,109,904	26,769,229	117.1
Persons engaged	56,736	56,256	0.9	Contract work	3,929,476	2,970,544	32.3
Proprietors and firm members, total	3,309	3,064	8.0	Supplies and materials[3]	19,209,516	12,736,355	50.8
Number performing manual labor in or about the mines, quarries, and wells	509	571	−10.9	Fuel and power	4,131,068	892,671	362.8
				Royalties and rents	6,339,816	3,667,382	72.9
				Taxes	4,028,789	856,766	370.2
Salaried employees	4,129	2,625	57.3				
Wage earners (average number)	49,298	50,567	−2.5	Value of products	134,518,505	63,767,112	111.0
Power used (horsepower)	337,611	294,763	14.5				

[1] A minus sign (−) denotes decrease. [2] Figures not available. [3] Includes cost of natural gas purchased as material.

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

INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.		INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.	
		Average number.	Per cent distribution.	Amount.	Per cent distribution.			Average number.	Per cent distribution.	Amount.	Per cent distribution.
All industries	2,283	49,298	100.0	$134,518,505	100.0	Limestone	90	2,262	4.6	$6,742,496	5.0
						Sandstone	21	875	1.8	2,759,352	2.1
Coal, bituminous	788	40,452	82.1	77,988,602	58.0	All other industries[1]	51	586	1.2	1,544,530	1.1
Petroleum and natural gas	1,333	5,123	10.4	45,483,525	33.8						

[1] Includes enterprises in industries as follows: Clay, 49; gypsum, 2.

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

INDUSTRY AND CHARACTER OF ORGANIZATION.	Number of enterprises.	Number of wage earners.	VALUE OF PRODUCTS.		PER CENT DISTRIBUTION.		
			Total.	Per enterprise.	Enterprises.	Wage earners.	Value of products.
ALL INDUSTRIES	2,283	49,298	$134,518,505	$58,922	100.0	100.0	100.0
Corporation	906	45,318	120,568,610	133,078	39.7	91.9	89.6
Individual	513	1,478	4,087,636	7,968	22.5	3.0	3.0
Firm	782	2,331	8,706,783	11,134	34.3	4.7	6.5
Other	82	171	1,155,476	14,091	3.6	0.3	0.9
COAL, BITUMINOUS	788	40,452	77,988,602	98,970	100.0	100.0	100.0
Corporation	453	37,798	73,116,226	161,404	57.5	93.4	93.8
Individual	172	1,118	2,008,691	11,678	21.8	2.8	2.6
Firm [1]	163	1,536	2,803,685	17,569	20.7	3.8	3.7
PETROLEUM AND NATURAL GAS	1,333	5,123	45,483,525	34,121	100.0	100.0	100.0
Corporation	357	4,027	36,960,934	103,532	26.8	78.6	81.3
Individual	290	261	1,791,832	6,053	22.2	5.1	3.9
Firm	600	698	5,661,294	9,435	45.0	13.6	12.4
Other	80	137	1,069,465	13,368	6.0	2.7	2.4
LIMESTONE	90	2,262	6,742,496	74,917	100.0	100.0	100.0
Corporation	45	2,087	6,287,088	139,713	50.0	92.3	93.2
Individual	30	81	245,901	8,197	33.3	3.6	3.6
Firm [1]	15	94	209,507	13,967	16.7	4.2	3.1

[1] Includes 1 other form of organization.

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

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.	
	Number.	Per cent distribution.	Number.	Per cent distribution.
ALL INDUSTRIES	2,283	100.0	49,298	100.0
No wage earners	604	26.5	.....	.....
1 to 5	974	42.7	1,945	3.9
6 to 20	323	14.1	3,509	7.1
21 to 50	172	7.5	5,797	11.8
51 to 100	93	4.1	7,012	14.2
101 to 500	105	4.6	19,892	40.4
501 to 1,000	9	0.4	6,465	13.1
Over 1,000	3	0.1	4,678	9.5
COAL, BITUMINOUS	788	100.0	40,452	100.0
No wage earners	27	3.4	.....	.....
1 to 5	253	32.1	725	1.8
6 to 20	198	25.1	2,258	5.6
21 to 50	129	16.4	4,390	10.9
51 to 100	76	9.6	5,755	14.2
101 to 500	95	12.1	17,680	43.7
501 to 1,000	7	0.9	4,966	12.3
Over 1,000	3	0.4	4,678	11.6
PETROLEUM AND NATURAL GAS	1,333	100.0	5,123	100.0
No wage earners	572	42.9	.....	.....
1 to 5	660	49.5	1,096	21.4
6 to 20	72	5.4	685	13.4
21 to 50	14	1.1	477	9.3
51 to 100	10	0.8	736	14.4
101 to 500	3	0.2	630	12.3
501 to 1,000	2	0.2	1,499	29.3

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.	
	Number.	Per cent distribution.	Number.	Per cent distribution.
LIMESTONE	90	100.0	2,262	100.0
No wage earners	2	2.2	.....	.....
1 to 5	39	43.3	87	3.8
6 to 20	24	26.7	257	11.4
21 to 50	18	20.0	551	24.4
51 to 100	3	3.3	228	10.1
101 to 500	4	4.4	1,139	50.4
SANDSTONE	21	100.0	875	100.0
1 to 5	4	19.0	6	0.7
6 to 20	7	33.3	81	9.3
21 to 50	4	19.0	117	13.4
51 to 100	3	14.3	228	26.1
101 to 500	3	14.3	443	50.6

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

INDUSTRY.	TOTAL.		NUMBER WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—											
			35 and under.		36 to 43.		44 to 53.		54 to 62.		63 to 71.		72 to 84.	
	Enterprises.	Wage earners.	Enterprises.	Wage earners.	Enterprises.	Wage earners.	Enterprises.	Wage earners.	Enterprises.	Wage earners.	Enterprises.	Wage earners.	Enterprises.	Wage earners.
All industries	[1] 1,679	49,298	194	547	71	525	913	40,318	445	7,308	30	467	26	133
Coal, bituminous	761	40,452	20	350	42	476	675	38,968	24	658	.....	.....	.....	.....
Petroleum and natural gas	761	5,123	173	196	26	45	202	562	305	3,793	29	394	26	133
Limestone	88	2,262	.....	.....	2	3	6	467	80	1,792	.....	.....	.....	.....
Sandstone	21	875	.....	.....	.....	.....	4	11	16	791	1	73	.....	.....
All other industries	48	586	1	1	1	1	26	310	20	274	.....	.....	.....	.....

[1] Exclusive of 604 enterprises employing no wage earners in industries as follows: Clay, 3; coal, bituminous, 27; petroleum and natural gas, 572; limestone, 2.

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

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

INDUSTRY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OF NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries	49,470	51,937	48,466	48,139	47,986	50,487	52,390	53,684	56,510	**56,983**	56,674	*19,033*	51,351	33.4
Producing enterprises	49,298	51,820	48,325	48,005	47,838	50,336	52,236	53,518	56,340	56,792	56,448	*18,793*	51,125	33.1
Coal, bituminous	40,452	43,395	40,357	39,890	39,465	41,530	43,165	44,175	46,693	47,253	47,195	*9,827*	42,479	20.8
Petroleum and natural gas	5,123	4,982	*4,860*	4,935	4,952	5,082	5,108	5,248	5,407	5,331	5,211	5,171	5,189	89.9
Limestone	2,262	2,173	*1,878*	1,902	1,986	2,166	2,415	2,564	2,659	2,569	2,458	2,314	2,060	70.6
Sandstone	875	701	*687*	766	900	1,008	971	965	970	977	903	863	789	68.2
All other industries	586	569	543	*512*	535	550	577	566	611	662	**681**	618	608	75.2
Nonproducing enterprises	172	*117*	141	134	148	151	154	166	170	191	226	240	226	48.8

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

	Aggregate.	PRODUCING ENTERPRISES.						Non-producing enterprises.[3]
		Total.	Coal, bituminous.[1]	Petroleum and natural gas.	Limestone.	Sandstone.	All other.[2]	
Number of enterprises	2,289	2,283	788	1,333	90	21	51	6
Number of mines and quarries	1,065	1,064	898	.....	91	23	52	1
Number of petroleum and natural-gas wells	35,440	35,440	.....	35,440	.....	.....	.....	.....
Number of natural-gas gasoline plants	53	53	.....	53	.....	.....	.....	.....
Capital	$257,144,007	$256,057,996	$144,508,527	$95,749,317	$10,087,803	$4,026,782	$1,685,567	$1,086,011
Principal expenses:								
Salaries and wages—								
Officers	$2,729,382	$2,726,182	$2,031,874	$461,053	$124,608	$86,352	$22,295	$3,200
Superintendents and managers	$2,628,882	$2,620,782	$1,735,506	$601,974	$187,463	$49,227	$46,612	$8,100
Technical employees	$252,903	$252,903	$173,699	$73,045	$4,800	$1,359	.....	.....
Clerks, etc	$2,445,277	$2,442,357	$1,162,018	$968,846	$193,330	$80,042	$38,121	$2,920
Wage earners	$58,319,694	$58,109,904	$47,748,648	$6,343,279	$2,327,159	$965,151	$725,667	$209,790
Supplies and materials	$16,375,997	$16,116,949	$9,105,833	$5,197,502	$1,339,758	$288,557	$185,299	$259,048
Cost of natural gas purchased as material and resold	$3,092,567	$3,092,567	.....	$3,092,567	.....	.....	.....	.....
Fuel	$2,951,426	$2,949,460	$1,433,483	$848,211	$494,038	$92,720	$81,008	$1,966
Power	$1,189,858	$1,181,608	$925,302	$11,683	$200,673	$22,927	$21,023	$8,250
Royalites and rents	$6,343,386	$6,339,816	$1,420,770	$4,814,769	$64,009	$15,809	$24,399	$3,570
Taxes	$4,031,123	$4,028,789	$1,562,444	$2,045,436	$358,289	$47,991	$14,629	$2,334
Contract work	$3,944,652	$3,929,476	$371,663	$3,412,458	$120,421	$24,934	.....	$15,176
Expenditures for development (included in the above items)	$8,439,675	$7,931,195	$1,142,196	$6,745,006	$14,550	$19,499	$9,944	$508,480
Value of products	$134,518,505	$134,518,505	$77,988,602	$45,483,525	$6,742,496	$2,750,352	$1,544,530	.....
Persons engaged in industry	56,916	56,736	43,433	9,072	2,599	968	664	180
Proprietors and firm members (total)	3,309	3,309	922	2,588	65	2	32	.....
Number performing manual labor	509	509	312	163	20	.....	14	.....
Salaried officers	793	791	538	193	36	19	5	2
Superintendents and managers	1,162	1,159	723	310	92	19	15	3
Technical employees	149	149	110	35	3	1	.....	.....
Clerks, etc	2,033	2,030	988	823	141	52	26	3
Wage earners (average number)	49,470	49,298	40,452	5,128	2,262	875	586	172
Wage earners by occupation (Dec. 15):								
Above ground (total)	16,865	16,837	8,046	5,249	2,482	818	242	28
Below ground (total)	40,489	40,291	39,831	.....	.....	.....	460	198
Foremen, shift bosses, etc.—								
Above ground	497	494	354	.....	94	29	17	3
Below ground	662	660	641	.....	.....	.....	19	2
Enginemen, hoistmen, electricians, mechanics, etc.—								
Above ground	7,362	7,352	2,681	4,177	419	45	30	10
Below ground	1,515	1,507	1,498	.....	.....	.....	9	8
Miners, quarrymen, and drillmen, including their helpers—								
Above ground	1,707	1,707	396	.....	917	328	66	.....
Below ground	18,341	18,163	17,948	.....	.....	.....	215	178
Timbermen, trackmen, and men engaged in hauling, tramming, etc.—								
Above ground	978	975	839	.....	100	21	15	3
Below ground	7,736	7,726	7,622	.....	.....	.....	104	10
Muckers, loaders, laborers, and others not classified—								
Above ground	5,946	5,934	3,776	1,072	862	156	68	12
Below ground	12,235	12,235	12,122	.....	.....	.....	113	.....
Wage earners employed in mills and beneficiating plants—								
Above ground	375	375	.....	.....	90	239	46	.....
Mineral and oil land operated.....acres	1,947,462	1,914,023	442,887	1,449,239	9,437	2,978	9,482	33,439
Land controlled, total.....acres	1,996,126	1,962,687	488,852	1,449,239	10,759	3,094	10,743	33,439
Mineral and oil land owned	414,597	413,597	348,214	49,655	8,849	2,689	4,190	1,000
Mineral and oil land leased	1,551,640	1,519,201	113,280	1,399,584	756	289	5,292	32,439
Timber and other lands owned and leased	29,889	29,889	27,358	.....	1,154	116	1,261	.....
Power used: Aggregate horsepower	337,982	337,611	136,145	153,220	39,881	5,431	2,934	371
Prime movers (horsepower, total)	272,812	272,716	84,578	153,083	29,480	3,529	2,046	96
Steam engines—								
Number	2,241	2,239	650	1,172	357	36	24	2
Horsepower	138,385	138,339	79,949	24,274	28,746	3,419	1,951	46
Steam turbines—								
Number	4	4	4	.....	.....	.....	.....	.....
Horsepower	3,275	3,275	3,275	.....	.....	.....	.....	.....
Internal-combustion engines—								
Number	6,310	6,308	120	6,134	43	5	6	2
Horsepower	131,124	131,074	1,354	128,809	706	110	95	50
Water wheels and turbines—								
Number	1	1	.....	.....	1	.....	.....	.....
Horsepower	28	28	.....	.....	28	.....	.....	.....
Purchased power (horsepower, total)	65,170	64,895	51,567	137	10,401	1,902	888	275
Electric motors operated by purchased current—								
Number	1,966	1,956	1,647	11	221	47	30	10
Horsepower	65,050	64,775	51,447	137	10,401	1,902	888	275
Other equipment operated by purchased power—								
Horsepower	120	120	120	.....	.....	.....	.....	.....
Electric motors run by current generated by enterprise using:								
Number	1,620	1,620	1,498	2	6	96	18	.....
Horsepower	40,687	40,687	38,145	37	36	2,222	247	.....
Fuel used:								
Coal, anthracite.....tons, 2,240 pounds	100	100	.....	.....	100	.....	.....	.....
Coal, bituminous.....tons, 2,000 pounds	863,191	862,717	675,165	7,365	137,879	23,954	18,354	474
Coke.....tons, 2,000 pounds	788	788	.....	.....	187	130	471	.....
Wood.....cords	139	139	.....	.....	139	.....	.....	.....
Fuel oils.....barrels	1,385	1,385	95	1,130	120	40	.....	.....
Gasoline and other volatile oils.....barrels	4,946	4,946	1,421	730	2,075	110	610	.....
Natural gas.....1,000 cubic feet	5,441,460	5,439,260	2,468	5,435,316	1,476	.....	.....	2,200

[1] Exclusive of a small quantity of coal mined with clay by, and included in reports of, manufacturers of clay products.
[2] Includes enterprises as follows: Clay, 49; gypsum, 2.
[3] Includes enterprises as follows: Coal, bituminous, 1; petroleum and natural gas, 5.